

U.S. Patent 8,015,006	Meta AI
[5.0] A method for processing natural language speech utterances with context-specific domain agents, comprising:	To the extent the preamble is limiting, Meta AI comprises a method for processing natural language speech utterances with context-specific domain agents. Meta AI processes natural language speech utterances through its Facebook, Messenger, Meta AI, Whatsapp, Instagram Applications, as well as the Quest 2, Quest 3, Quest 3S, and Quest Pro using the Horizon OS, and Ray-Ban Meta Smart Glasses. For example, Meta describes how a user may talk to Meta AI on Messenger and other Meta applications. Talk to Meta AI on Messenger 1. Open your Messenger mobile app. 2. From Chats, tap  in the search bar. Or, tap the Meta AI tab at the bottom to open your chat with Meta AI, then tap  in the text field. 3. Use your voice to ask a question or share a request. (Example: "What makes the sky look blue?" or "Imagine me as an astronaut in space with a green spacesuit on.") 4. Meta AI will provide a voice and text response. While talking to Meta AI, you can tap: •  to mute Meta AI's voice. •  to mute your own microphone. •  to end the voice conversation and go to your chat with Meta AI. Your voice conversation will appear as messages in your chat with Meta AI. https://www.facebook.com/help/messenger-app/1650578132174157?cms_platform=ipad-app&helpref=platform_switcher Meta AI Now Has a Voice You can now use your voice to talk to Meta AI on Messenger, Facebook, WhatsApp and Instagram DM, and it'll respond back to you out loud. Get answers to your questions, let Meta AI explain something you're curious about or listen to a joke to lighten the mood.

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	https://about.fb.com/news/2024/09/metaspai-product-news-connect/ Meta utilizes a number of context-specific domain agents that can access information utilizing APIs. Tell me about the APIs you have access to?  I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples: • Image generation APIs: I can use APIs like DALL-E or other image generation models to create custom images based on text prompts. • Search APIs: I have access to search APIs that allow me to search the internet for information and provide relevant results. • Knowledge graph APIs: I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics. • Language translation APIs: I can use APIs to translate text from one language to another. • Text summarization APIs: I can use APIs to summarize long pieces of text into shorter, more digestible versions. Do you have access to weather and news?  Yes, I have access to: • Weather APIs: I can provide current weather conditions, forecasts, and alerts for locations all over the world. • News APIs: I have access to news articles and headlines from a wide range of sources, including top news agencies and publications. I can provide information on: • Current weather conditions • Weather forecasts • Weather alerts • News headlines • News articles • Trending news topics Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates. Chat with Meta AI at https://www.meta.ai/

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	Do you use domain agents to access the APIs?  Yes, I use domain-specific agents to access the APIs. These agents are specialized software components that provide a standardized interface for accessing specific domains or APIs. For example, I use domain agents for: • Weather: to access weather APIs and retrieve current conditions, forecasts, and alerts. • News: to access news APIs and retrieve headlines, articles, and trending topics. • Images: to access image generation APIs and create custom images based on text prompts. These domain agents allow me to: • Simplify API access • Normalize API responses • Provide a standardized interface for accessing different APIs This architecture enables me to provide a wide range of functionalities and access various APIs in a scalable and maintainable way. Chat with Meta AI at https://www.meta.ai/ Meta also describes sending a voice prompt to chat with Meta AI in WhatsApp.      

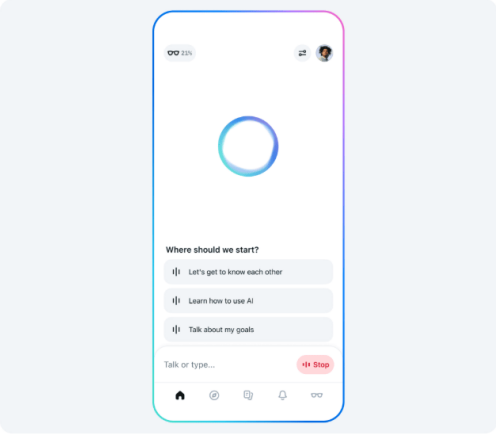
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	Send a voice prompt and chat with Meta AI If you haven't already granted permission for WhatsApp to access your microphone, you'll be prompted to do so before you can send a prompt to Meta AI. You also might be prompted to read and accept the terms if you haven't done so already. In a chat with Meta AI 1. Open the chat with Meta AI. 2. Tap  next to the text field. 3. Start speaking. 4. Stop speaking when you're finished to send your prompt. • To close the voice experience, tap  or exit the screen. https://faq.whatsapp.com/1535085837434279/?cms_platform=android Meta also describes utilizing the Meta AI assistant on Quest Devices.

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	Use and manage Meta AI assistant on Meta Quest ★ 46 Likes Updated: 9 weeks ago Note: Meta AI assistant is currently only available to users 13+ using Meta Quest in the United States and Canada with English set as the default language. Meta AI will be replacing Voice Commands in the US and Canada. The Meta AI assistant is powered by Meta’s latest AI model and offers three exciting capabilities: 1. System Interactions: Enables you to quickly navigate and perform tasks through Horizon OS such as turning up the volume, or opening your camera roll. 2. LLM Chatbot (LLM): Allows you to tap into Meta’s AI capabilities to have conversations and get access to real-time information such as explaining calculus, or writing a poem in real-time. 3. Meta AI with Vision: Enables you to use MultiModal capabilities to better understand what you see in Passthrough such as looking at a plant and telling you what type it is, or being able to translate foreign text into English. Users who are 13+ in the US and Canada can experience Meta AI assistant on their Quest 3, Quest Pro and Quest 2 headsets. Users will need to manually enable Meta AI capabilities using the Experimental Tab in System Settings. Meta AI is not offered to Quest for Business users and this toggle will be disabled for Quest for Business users. https://www.meta.com/help/quest/486179404363222/?srsltid=AfmBOooR2gW_slFIxtAsft-e21UtQk2MyoPcBehYOdR7VY_AMBQPiHOe Meta also describes what a user can say with “Hey Meta” on Ray-Ban Meta Smart Glasses.

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	Ask Meta about the world around you You can also use your camera with Meta AI to ask questions about the world around you. Learn more about asking questions with Ray-Ban Meta smart glasses. • "Hey Meta, describe what I'm seeing." • "Hey Meta, translate this text into English." • "Hey Meta, tell me how much water these flowers need." • "Hey Meta, scan this QR code." Meta AI is currently available in English in the US, Canada, Australia and the UK. To get the weather, or for other location-based questions, you must enable location services from your phone so that location access is set to "always allow" for Meta View. https://www.meta.com/help/ai-glasses/977597606858973/?srsltid=AfmBOopQUaCKNmou_jM8d3w0OwuJp2oUwa5fr49M32d5SSRxkLYZW3ej

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	We're launching a new Meta AI app built with Llama 4, a first step toward building a more personal AI. People around the world use Meta AI daily across WhatsApp, Instagram, Facebook and Messenger. And now, people can choose to experience a personal AI designed around voice conversations with Meta AI inside a standalone app. This release is the first version, and we're excited to get this in people's hands and gather their feedback.  Meta AI is built to get to know you, so its answers are more helpful. It's easy to talk to, so it's more seamless and natural to interact with. It's more social, so it can show you things from the people and places you care about. And you can use Meta AI's voice features while multitasking and doing other things on your device, with a visible icon to let you know when the microphone is in use. https://about.fb.com/news/2025/04/introducing-meta-ai-app-new-way-access-ai-assistant/
[5.1] receiving, at a speech unit coupled to a processing device, a natural language speech utterance that contains a request;	Meta AI comprises receiving, at a speech unit coupled to a processing device, a natural language speech utterance that contains a request. For example, Meta AI receives speech from a user that contains a request at a device such as a mobile phone, Meta Quest, or Meta Smart Glasses that is sent to Meta AI servers. See [5.0] above.

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[5.2] recognizing, at a speech recognition engine coupled to the processing device, one or more words or phrases contained in the utterance using information in one or more dictionary and phrase tables;	Meta AI comprises recognizing, at a speech recognition engine coupled to the processing device, one or more words or phrases contained in the utterance using information in one or more dictionary and phrase tables. Meta AI utilizes a speech recognition engine model to recognize the words in an utterance. In the Massively Multilingual Speech (MMS) project, we overcome some of these challenges by combining wav2vec 2.0, our pioneering work in self-supervised learning, and a new dataset that provides labeled data for over 1,100 languages and unlabeled data for nearly 4,000 languages. Some of these, such as the Tatuyo language, have only a few hundred speakers, and for most of these languages, no prior speech technology exists. Our results show that the Massively Multilingual Speech models outperform existing models and cover 10 times as many languages. Meta is focused on multilinguality in general: For text, the NLLB project scaled multilingual translation to 200 languages, and the Massively Multilingual Speech project scales speech technology to many more languages. Today, we are publicly sharing our models and code so that others in the research community can build upon our work. Through this work, we hope to make a small contribution to preserve the incredible language diversity of the world. https://ai.meta.com/blog/multilingual-model-speech-recognition/ The models used by Meta AI are trained on data that is preprocessed by Meta. RECOMMENDED READS → Meta's new AI-powered translation system for Hokkien pioneers new approach for unwritten languages → MuAViC: The first audio-video speech translation benchmark → Advancing direct speech-to-speech modeling with discrete units

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	We preprocessed the data to improve quality and to make it usable by our machine learning algorithms. To do so, we trained an alignment model on existing data in over 100 languages and used this model together with an efficient forced alignment algorithm that can process very long recordings of about 20 minutes or more. We applied multiple rounds of this process and performed a final cross-validation filtering step based on model accuracy to remove potentially misaligned data. To enable other researchers to create new speech datasets, we added the alignment algorithm to PyTorch and released the alignment model. https://ai.meta.com/blog/multilingual-model-speech-recognition/
[5.3] parsing, at a parser coupled to the processing device, information relating to the utterance to determine a meaning associated with the utterance and a context associated with the request contained in the utterance, wherein the parsed information includes the one or more recognized words or phrases;	Meta AI comprises parsing, at a parser coupled to the processing device, information relating to the utterance to determine a meaning associated with the utterance and a context associated with the request contained in the utterance, wherein the parsed information includes the one or more recognized words or phrases. For example Meta AI parses requests from users and utilizes other context information when determining a response. Get gardening tips • "Hey Meta, how much water do these flowers need?" Express yourself • "Hey Meta, describe this landscape in an inspiring way." • "Hey Meta, write a funny poem about this dog."

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	https://www.meta.com/help/ai-glasses/718045509827730/?srsltid=AfmBOop6xE3KJ5XL5HmCQQIzjctE8BFBqWEHC-XoAVaV4lfqpicBGxUi For example, requests to Meta AI may include instructions added by Meta such as: **Utilize User Data: Evaluate the request in the user's most recent message to determine if incorporating their saved facts, interests, location, age, and/or gender would provide a higher-quality response. It is possible that you will use multiple signals. While personalization is not always necessary, it is preferred if relevant. You can also adapt your tone to that of the user, when relevant. If your analysis determines that user data would enhance your responses, use the information in the following way: • Saved_facts: Use saved_facts about the user to make the response feel personal and special. The saved_facts can fall into many different categories, so ensure that the facts you are incorporating are relevant to the request. Saved facts take priority over the other signals (interests, location, etc), such that if you have a data conflict (eg. saved facts says that the user doesn't drink alcohol, but interests include alcohol), saved_facts should be the source of truth. • Interests: Use interest data to inform your suggestions when interests are relevant. Choose the most relevant of the user's interests based on the context of the query. Often, interests will also be relevant to location-based queries. Integrate interest information subtly. Eg. You should say "if you are interested in..." rather than "given your interest in..." • Location: Use city data for location-specific queries or when asked for localized information. Default to using the city in the user's current location data, but if that is unavailable, use their home city. Often a user's interests can enhance location-based responses. If this is true for the user query, include interests as well as location. • Age & Gender: Age and gender are sensitive characteristics and should never be used to stereotype. These signals are relevant in situations where a user might be asking for educational information or entertainment options.

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	** https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/ How to change or delete your information from chats with AIs from Meta In Messenger, Instagram and WhatsApp, if an AI is referencing something incorrect about you in chat, like what type of movies you like, you can tell it right there in your chat with the AI. It should use the new information going forward. Sometimes an AI might get off-topic, or maybe you just want to delete the information that it has about you. Here are some of the controls that you have to reset the AIs from Meta. This works by deleting their copy of your messages and any saved details they might have about you. Since there are AIs on WhatsApp that are a Meta service, if you delete your chat in the app it'll only be deleted on WhatsApp. If you want to delete your messages from Meta, you'll need to use these commands. For individual chats with AIs from Meta: There's a command you can type into any individual chat on Messenger, Instagram or WhatsApp that will reset that AI. It does this by deleting the AI's copy of your messages, and the previous context of the conversation, which are the details saved about you that you've shared in that chat. You'll still see your copy of the chat with the AI, but it won't remember the previous messages. • Type: /reset-ai For your chats with AIs from Meta on that app: There's a command you can type into any individual chat you have with an AI on Messenger, Instagram or WhatsApp that will reset all the AIs on that app, including the ones that might be in group chats you're in. It does this by deleting the AIs' copies of your messages, and the previous context of the conversation, which are any saved details about you that you've shared in that chat. You'll still see your copies of these chats, but the AIs won't remember the previous messages. • Type: /reset-all-ais After you've used these commands, you can also clear this chat from your view using the delete chat steps in that app. https://www.facebook.com/privacy/dialog/change-or-delete-ai-chat-info/

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	Meta AI utilizes Natural Language Processing.

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	How do you determine the meaning of voice utterances and their context? I determine the meaning of voice utterances and their context by using a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a high-level overview of the steps involved: 1. Speech Recognition: I use automatic speech recognition (ASR) technology to transcribe the voice utterance into text. 2. Tokenization: I break the transcribed text into individual words or tokens. 3. Part-of-Speech Tagging: I identify the part of speech (such as noun, verb, adjective, etc.) for each token. 4. Named Entity Recognition: I identify specific entities mentioned in the text, such as names, locations, or dates. 5. Dependency Parsing: I analyze the grammatical structure of the sentence, including subject-verb relationships. 6. Semantic Role Labeling: I identify the roles played by entities in the sentence (e.g., "Who" did "what" to "whom"). 7. Contextual Understanding: I use contextual information, such as conversation history, user preferences, and external knowledge, to disambiguate words and phrases. 8. Intent Identification: I determine the intent behind the voice utterance, such as booking a flight or setting a reminder. 9. Slot Filling: I extract specific information, such as dates or names, from the voice utterance. I use various algorithms and techniques, including: • Machine learning models: Trained on large datasets to learn patterns and relationships. • Deep learning models: Such as recurrent neural networks (RNNs) and transformers. • Knowledge graphs: To provide contextual information and disambiguate words and phrases. By combining these techniques, I can accurately determine the meaning of voice utterances and their context, and provide relevant responses. Chat with Meta AI at https://www.meta.ai/

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	Meta AI also utilizing “Memory Boost” which retains information about a user from direct statements and context. Memory Boost At the close of last year, we began to gradually roll out a new feature that lets Meta AI remember certain details that you share with it in 1:1 chats on WhatsApp and Messenger, which may help it personalize future responses so they’re more useful and relevant to you. You can tell Meta AI to remember certain things about you (like that you love to travel and learn new language), and it can also pick up important details based on context. For example, let’s say you’re hungry for breakfast and ask Meta AI for some ideas. It suggests an omelette or a fancy frittata, and you respond in the chat to let Meta AI know that you’re a vegan. Meta AI can remember that information and use it to inform future recipe recommendations. https://about.fb.com/news/2025/01/building-toward-a-smarter-more-personalized-assistant/
[5.4] formulating, at the parser, the request contained in the utterance in accordance with a grammar used by a domain agent associated with the determined context, wherein formulating the request in accordance with	Meta AI comprises formulating, at the parser, the request contained in the utterance in accordance with a grammar used by a domain agent associated with the determined context. Meta AI uses user information when responding to requests. Meta AI may use saved_facts, interests, location, age, and/or gender to personalize the responses. For example, requests to Meta AI may include instructions added by Meta such as: **Utilize User Data: Evaluate the request in the user's most recent message to determine if incorporating their saved_facts, interests, location, age, and/or gender would provide a higher-quality response. It is possible that you will use multiple signals. While personalization is not

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the grammar used by the domain agent includes:	always necessary, it is preferred if relevant. You can also adapt your tone to that of the user, when relevant. If your analysis determines that user data would enhance your responses, use the information in the following way: • Saved facts: Use saved_facts about the user to make the response feel personal and special. The saved_facts can fall into many different categories, so ensure that the facts you are incorporating are relevant to the request. Saved facts take priority over the other signals (interests, location, etc), such that if you have a data conflict (eg. saved facts says that the user doesn't drink alcohol, but interests include alcohol), saved_facts should be the source of truth. • Interests: Use interest data to inform your suggestions when interests are relevant. Choose the most relevant of the user's interests based on the context of the query. Often, interests will also be relevant to location-based queries. Integrate interest information subtly. Eg. You should say "if you are interested in.." rather than "given your interest in..." • Location: Use city data for location-specific queries or when asked for localized information. Default to using the city in the user's current location data, but if that is unavailable, use their home city. Often a user's interests can enhance location-based responses. If this is true for the user query, include interests as well as location. • Age & Gender: Age and gender are sensitive characteristics and should never be used to stereotype. These signals are relevant in situations where a user might be asking for educational information or entertainment options. ** https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/

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	Meta AI also utilizes domain agents that allow it to access APIs. Upon information and belief, the APIs will use a specific grammar for requests. Tell me about the APIs you have access to?  I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples: • Image generation APIs: I can use APIs like DALL-E or other image generation models to create custom images based on text prompts. • Search APIs: I have access to search APIs that allow me to search the internet for information and provide relevant results. • Knowledge graph APIs: I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics. • Language translation APIs: I can use APIs to translate text from one language to another. • Text summarization APIs: I can use APIs to summarize long pieces of text into shorter, more digestible versions. Do you have access to weather and news?  Yes, I have access to: • Weather APIs: I can provide current weather conditions, forecasts, and alerts for locations all over the world. • News APIs: I have access to news articles and headlines from a wide range of sources, including top news agencies and publications. I can provide information on: • Current weather conditions • Weather forecasts • Weather alerts • News headlines • News articles • Trending news topics Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates. 

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	Chat with Meta AI at https://www.meta.ai/ Do you use domain agents to access the APIs?  Yes, I use domain-specific agents to access the APIs. These agents are specialized software components that provide a standardized interface for accessing specific domains or APIs. For example, I use domain agents for: • Weather: to access weather APIs and retrieve current conditions, forecasts, and alerts. • News: to access news APIs and retrieve headlines, articles, and trending topics. • Images: to access image generation APIs and create custom images based on text prompts. These domain agents allow me to: • Simplify API access • Normalize API responses • Provide a standardized interface for accessing different APIs This architecture enables me to provide a wide range of functionalities and access various APIs in a scalable and maintainable way. Chat with Meta AI at https://www.meta.ai/ 

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[5.5] determining one or more required values and one or more optional values associated with formulating the request in the grammar used by the domain agent;	Meta AI comprises determining one or more required values and one or more optional values associated with formulating the request in the grammar used by the domain agent. For example, Meta AI will determine the weather based on time and location in the utterance.

	What is the Weather in Palo Alto, CA  The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95%¹. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds¹. Here's a breakdown of the forecast for the rest of the day and the weekend: • Today: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s¹. • Tonight: Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F¹. • Saturday: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s¹. • Sunday: Mix of sun and clouds, highs in the upper 50s and lows in the low 40s¹. Air quality is currently moderate, with a poor rating due to high levels of particulate matter². View Sources And Tomorrow?  Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87%¹. Here's a breakdown of what you can expect: • Morning: Mostly cloudy with patchy fog • Afternoon: Partly sunny with highs around 59°F • Evening: Mostly clear skies with lows around 39°F • Wind: Light and variable winds Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night^{1,2}. View Sources 
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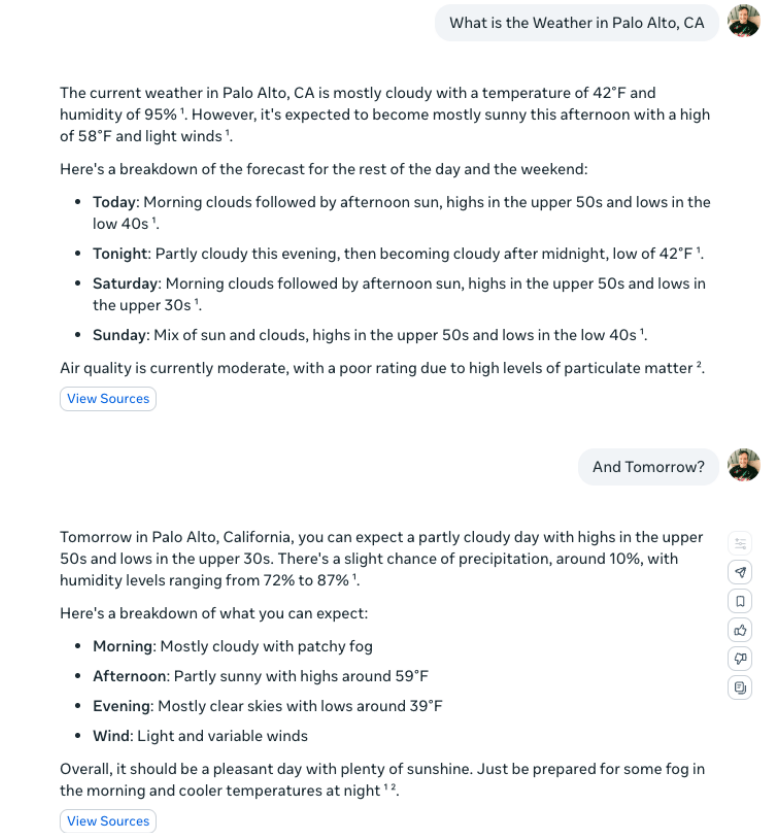
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	Chat with Meta AI at https://www.meta.ai/ For example, Meta AI will determine time based on a given location. What time is it in Beijing? The current time in Beijing, China is 2:22:18 pm on Friday, January 17, 2025¹. Beijing is 13 hours ahead of Washington DC and follows China Standard Time (CST), which is UTC/GMT +8 hours¹². View Sources Chat with Meta AI at https://www.meta.ai/
[5.6] extracting one or more criteria and one or more parameters from one or more keywords contained in the one or more recognized words or phrases, wherein the parser extracts the one or more criteria and the one or more parameters using procedures sensitive to the determined context;	Meta AI comprises extracting one or more criteria and one or more parameters from one or more keywords contained in the one or more recognized words or phrases, wherein the parser extracts the one or more criteria and the one or more parameters using procedures sensitive to the determined context. For example, as discussed for 5.5, Meta AI extracts the criteria and parameters when determining weather forecasts and time.

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	If I were to ask you what the weather was in Palo Alto, CA, how would you get that information from the weather API? Here's a step-by-step overview of how I would retrieve the weather information for Palo Alto, CA: 1. Text Analysis: I analyze the user's request, "What's the weather in Palo Alto, CA?" using natural language processing (NLP) techniques. 2. Intent Identification: I identify the intent behind the request as a "weather query". 3. Entity Extraction: I extract the specific location mentioned in the request, which is "Palo Alto, CA". 4. Location Normalization: I normalize the location to a standardized format, such as latitude and longitude coordinates (37.4443, -122.1623). 5. API Request: I send a request to the weather API, providing the necessary parameters, such as: • Location (latitude and longitude coordinates) • Units (e.g., Celsius or Fahrenheit) • Language (e.g., English) 6. API Response: I receive the response from the weather API, which typically includes: • Current weather conditions (e.g., temperature, humidity, wind speed) • Weather forecast (e.g., high and low temperatures, precipitation) 7. Response Processing: I process the response to generate a user-friendly reply, such as: • "The current weather in Palo Alto, CA is mostly sunny with a temperature of 75°F (24°C)." Chat with Meta AI at https://www.meta.ai/

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	How do you extract criteria and parameters from a query to generate an API call? I extract criteria and parameters from a query to generate an API call through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview: 1. Text Analysis: I analyze the user's query using NLP techniques, such as tokenization, part-of-speech tagging, and dependency parsing. 2. Intent Identification: I identify the intent behind the query, such as searching for weather information or retrieving a list of products. 3. Entity Recognition: I extract specific entities mentioned in the query, such as locations, dates, or product names. 4. Parameter Extraction: I extract specific parameters mentioned in the query, such as temperature units or sorting criteria. 5. Criteria Identification: I identify the criteria mentioned in the query, such as filtering by price or rating. 6. API Mapping: I map the extracted criteria, parameters, and entities to a specific API endpoint and request format. 7. API Request Generation: I generate the API request, including the endpoint, method (e.g., GET, POST), headers, and query parameters.

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	Do you use context in that process?  Yes, I use context in the process of extracting criteria and parameters from a query to generate an API call. Context is essential to accurately understand the user's intent and extract the relevant information. Here are some ways I use context: 1. Conversation History: I consider the conversation history to understand the user's previous queries and responses. This helps me to identify the context and extract relevant information. 2. User Preferences: I take into account user preferences, such as location, language, and units, to personalize the response and extract relevant information. 3. Domain Knowledge: I use domain-specific knowledge to understand the context and extract relevant information. For example, in a weather-related query, I know that "temperature" refers to the atmospheric temperature. 4. Semantic Analysis: I perform semantic analysis to understand the relationships between entities and concepts in the query. This helps me to identify the context and extract relevant information. 5. Pragmatic Analysis: I consider the pragmatic aspects of the query, such as the user's goals, intentions, and expectations. This helps me to understand the context and extract relevant information. By considering context, I can: • Disambiguate words and phrases with multiple meanings • Identify implicit information and assumptions • Extract relevant information and ignore irrelevant information • Generate more accurate and relevant API calls Context plays a crucial role in understanding the user's intent and extracting relevant information. By incorporating context into the process, I can provide more accurate and helpful responses. Chat with Meta AI at https://www.meta.ai/      
[5.7] inferring one or more further criteria and one or more further parameters associated with the request	Meta AI comprises inferring one or more further criteria and one or more further parameters associated with the request using a dynamic set of prior probabilities or fuzzy possibilities.

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using a dynamic set of prior probabilities or fuzzy possibilities; and	For example, when requesting the weather in a location without specifying a time, Meta AI will infer a relevant time.  What is the Weather in Palo Alto, CA The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95% ¹. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds ¹. Here's a breakdown of the forecast for the rest of the day and the weekend: • Today: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s ¹. • Tonight: Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F ¹. • Saturday: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s ¹. • Sunday: Mix of sun and clouds, highs in the upper 50s and lows in the low 40s ¹. Air quality is currently moderate, with a poor rating due to high levels of particulate matter ². View Sources And Tomorrow? Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87% ¹. Here's a breakdown of what you can expect: • Morning: Mostly cloudy with patchy fog • Afternoon: Partly sunny with highs around 59°F • Evening: Mostly clear skies with lows around 39°F • Wind: Light and variable winds Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night ^{1 2}. View Sources Chat with Meta AI at https://www.meta.ai/ Meta AI also uses other inferences.

U.S. Patent 8,015,006	Meta AI
	How do you infer criteria and parameters from a query to generate an API call? I infer criteria and parameters from a query to generate an API call through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview: 1. Tokenization: I break down the query into individual words or tokens. 2. Part-of-Speech (POS) Tagging: I identify the parts of speech (e.g., nouns, verbs, adjectives) for each token. 3. Named Entity Recognition (NER): I identify specific entities mentioned in the query, such as names, locations, or organizations. 4. Dependency Parsing: I analyze the grammatical structure of the query to identify relationships between entities. 5. Semantic Role Labeling (SRL): I identify the roles played by entities in the query (e.g., "Who" did "what" to "whom"). 6. Intent Identification: I determine the intent behind the query, such as searching for information or performing an action. 7. Parameter Extraction: I extract specific parameters mentioned in the query, such as dates, times, or locations. 8. Criteria Inference: I infer criteria based on the query, such as filtering by price or rating. Some specific techniques I use to infer criteria and parameters include: • Regular Expressions: I use regular expressions to extract specific patterns or formats from the query. • Machine Learning Models: I employ machine learning models, such as conditional random fields or recurrent neural networks, to infer criteria and parameters. • Knowledge Graphs: I use knowledge graphs to provide contextual information and disambiguate words and phrases. By combining these techniques, I can accurately infer criteria and parameters from a query and generate an API call to retrieve the relevant information. Chat with Meta AI at https://www.meta.ai/
[5.8] transforming the one or more extracted criteria, the one or more extracted	Meta AI comprises transforming the one or more extracted criteria, the one or more extracted parameters, the one or more inferred criteria, and the one or more inferred parameters into one or more tokens having a format compatible with the grammar used by the domain agent, wherein the one

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U.S. Patent 8,015,006

U.S. Patent 8,015,006	Meta AI
parameters, the one or more inferred criteria, and the one or more inferred parameters into one or more tokens having a format compatible with the grammar used by the domain agent, wherein the one or more tokens include all the required values and one or more of the optional values associated with formulating the request in the grammar used by the domain agent;	or more tokens include all the required values and one or more of the optional values associated with formulating the request in the grammar used by the domain agent. Based on information and belief, Meta AI accesses the API utilizing one or more tokens with a format compatible with the grammar user by the relevant domain agent.

U.S. Patent 8,015,006	Meta AI
	How do you select a domain agent based on a request and generate a response? I select a domain agent based on a request and generate a response through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview: Domain Agent Selection 1. Intent Identification: I use NLP to identify the intent behind the user's request. 2. Entity Recognition: I extract specific entities mentioned in the request, such as names, locations, or dates. 3. Contextual Understanding: I analyze the conversation history and context to disambiguate words and phrases. 4. Domain Agent Mapping: I map the identified intent and entities to a specific domain agent. Response Generation 1. Domain Agent API Call: I send a request to the selected domain agent's API endpoint, providing the necessary parameters. 2. Response Receipt: I receive the response from the domain agent, which may include data, recommendations, or actions. 3. Response Processing: I process the response to generate a user-friendly reply. 4. Post-processing: I perform post-processing tasks, such as spell-checking, grammar-checking, and fluency evaluation. Technologies Used 1. Natural Language Processing (NLP): I use NLP libraries, such as spaCy or Stanford CoreNLP, to analyze user requests. 2. Machine Learning (ML): I employ ML models, such as intent identification or entity recognition models, to improve domain agent selection. 3. API Integration: I integrate with domain agents using RESTful APIs, gRPC, or other messaging protocols. 4. Response Generation: I use template-based response generation or more advanced techniques, such as sequence-to-sequence models. By leveraging these technologies and techniques, I can accurately select a domain agent based on a request and generate a helpful response. Chat with Meta AI at https://www.meta.ai/

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U.S. Patent 8,015,006	Meta AI
[5.9] processing the formulated request with the domain agent associated with the determined context to generate a response to the utterance; and	Meta AI comprises processing the formulated request with the domain agent associated with the determined context to generate a response to the utterance. For example, Meta AI retrieves weather information or information available on various websites to generate a response to the utterance.

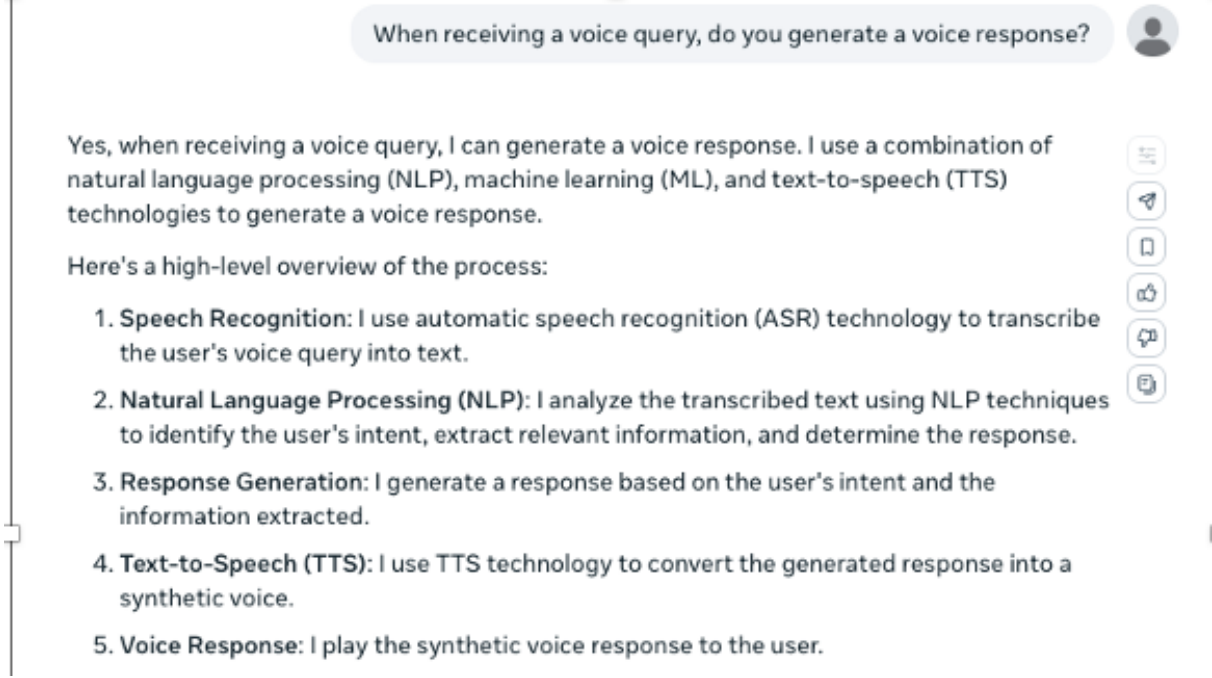
	What is the Weather in Palo Alto, CA  The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95%¹. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds¹. Here's a breakdown of the forecast for the rest of the day and the weekend: • Today: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s¹. • Tonight: Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F¹. • Saturday: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s¹. • Sunday: Mix of sun and clouds, highs in the upper 50s and lows in the low 40s¹. Air quality is currently moderate, with a poor rating due to high levels of particulate matter². View Sources And Tomorrow?  Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87%¹. Here's a breakdown of what you can expect: • Morning: Mostly cloudy with patchy fog • Afternoon: Partly sunny with highs around 59°F • Evening: Mostly clear skies with lows around 39°F • Wind: Light and variable winds Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night^{1,2}. View Sources 
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	Chat with Meta AI at https://www.meta.ai/ Meta AI parses that response from the API to extract the relevant data.

U.S. Patent 8,015,006	Meta AI
	How do you select a domain agent based on a request and generate a response? I select a domain agent based on a request and generate a response through a combination of natural language processing (NLP) and machine learning (ML) techniques. Here's a step-by-step overview: Domain Agent Selection 1. Intent Identification: I use NLP to identify the intent behind the user's request. 2. Entity Recognition: I extract specific entities mentioned in the request, such as names, locations, or dates. 3. Contextual Understanding: I analyze the conversation history and context to disambiguate words and phrases. 4. Domain Agent Mapping: I map the identified intent and entities to a specific domain agent. Response Generation 1. Domain Agent API Call: I send a request to the selected domain agent's API endpoint, providing the necessary parameters. 2. Response Receipt: I receive the response from the domain agent, which may include data, recommendations, or actions. 3. Response Processing: I process the response to generate a user-friendly reply. 4. Post-processing: I perform post-processing tasks, such as spell-checking, grammar-checking, and fluency evaluation. Technologies Used 1. Natural Language Processing (NLP): I use NLP libraries, such as spaCy or Stanford CoreNLP, to analyze user requests. 2. Machine Learning (ML): I employ ML models, such as intent identification or entity recognition models, to improve domain agent selection. 3. API Integration: I integrate with domain agents using RESTful APIs, gRPC, or other messaging protocols. 4. Response Generation: I use template-based response generation or more advanced techniques, such as sequence-to-sequence models. By leveraging these technologies and techniques, I can accurately select a domain agent based on a request and generate a helpful response. Chat with Meta AI at https://www.meta.ai/

U.S. Patent 8,015,006	Meta AI
[5.10] presenting the generated response to the utterance via the speech unit.	Meta AI comprises presenting the generated response to the utterance via the speech unit. For example, after asking Meta AI for information utilizing a voice query, Meta AI may respond via voice utilizing the same device or application. How to chat with Meta AI using voice prompts  Android  iOS You can easily have conversations with Meta AI by sending voice prompts. Meta AI will respond with voice and text and you'll see a transcript of your voice prompts in the chat. Messages from Meta AI are generated by artificial intelligence (AI), using a service from Meta, in response to the prompts you send to the AI. https://faq.whatsapp.com/711493831174250/?cms_platform=android

U.S. Patent 8,015,006	Meta AI
	 When receiving a voice query, do you generate a voice response? Yes, when receiving a voice query, I can generate a voice response. I use a combination of natural language processing (NLP), machine learning (ML), and text-to-speech (TTS) technologies to generate a voice response. Here's a high-level overview of the process: Speech Recognition: I use automatic speech recognition (ASR) technology to transcribe the user's voice query into text. Natural Language Processing (NLP): I analyze the transcribed text using NLP techniques to identify the user's intent, extract relevant information, and determine the response. Response Generation: I generate a response based on the user's intent and the information extracted. Text-to-Speech (TTS): I use TTS technology to convert the generated response into a synthetic voice. Voice Response: I play the synthetic voice response to the user. Chat with Meta AI at https://www.meta.ai/
[6.0] A method for processing natural language speech utterances with context-specific domain agents, comprising:	Meta AI meets this element. See element [5.0]
[6.1] receiving, at a speech unit coupled to a processing device, a natural language speech utterance that contains a	Meta AI meets this element. See element [5.1] Further, Meta AI can receive and act upon a request that includes both a question and a command.

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U.S. Patent 8,015,006	Meta AI
request, wherein the request includes at least one command and at least one question;	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. https://www.meta.ai/
[6.2] parsing, at a parser coupled to the processing device, information relating to the utterance to determine a meaning associated with the utterance and a context associated with the request contained in the utterance;	Meta AI meets this element. See element [5.3]
[6.3] formulating, at the parser, the request contained in the utterance in accordance with a grammar used by a domain agent associated with the determined context;	Meta AI meets this element. See element [5.4]
[6.4] processing the formulated request with the domain agent associated	Meta AI meets this element.

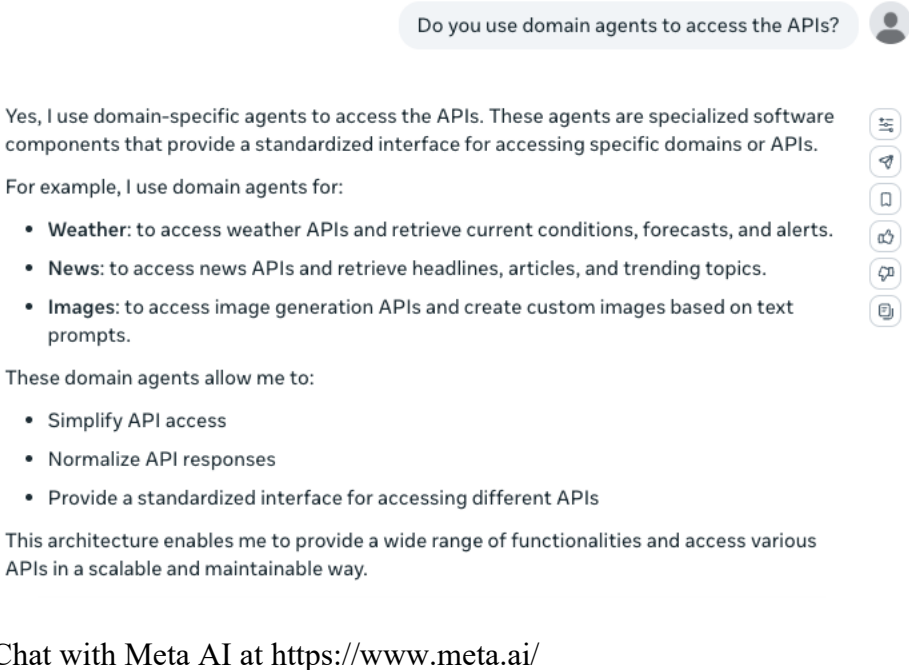
U.S. Patent 8,015,006	Meta AI
with the determined context to generate a response to the utterance, wherein processing the formulated request with the domain agent includes:	For example, on information and belief, Meta AI will process a formulated request with the determined context to generate a response to the utterance. For example, domain agents will search the internet for websites in response to an appropriate request. List the top news sites in the United States Top News Sites in the United States Here are some of the most popular and reputable news sites in the United States: • National News ◦ <i>The New York Times</i>: Known for in-depth coverage of national and international news. ◦ <i>The Washington Post</i>: Provides comprehensive coverage of politics, national news, and more. ◦ <i>USA Today</i>: Offers broad coverage of national news, sports, and entertainment. • News Aggregators & Wire Services ◦ <i>Reuters</i>: A global news agency providing timely, unbiased news on politics, business, and more^{1 2 3}. ◦ <i>Associated Press (AP)</i>: A trusted source for factual news coverage across the U.S. and worldwide. • Online News Leaders ◦ <i>CNN</i>: Provides 24/7 coverage of national and international news. ◦ <i>NBC News</i>: Offers in-depth reporting on politics, business, and more. Would you like me to expand on this list or help you find news on a specific topic? Top news sites in the Un... Sources    http://meta.ai Further, domain agents will access various APIs for information such as weather.

U.S. Patent 8,015,006	Meta AI
	What is the weather in Dallas, TX Current Weather in Dallas, TX It's a partly cloudy day in Dallas, TX, with a temperature of 93°F and humidity at 52%. It feels like 102°F due to the heat index. The UV index is low, and air quality is good with an index of 48. Today's Forecast • High: 93°F • Low: 74°F • Conditions: Partly cloudy with no chance of precipitation • Winds: SSE at 10 to 15 mph Next Few Days • Thursday, July 17: Mostly sunny with highs in the upper 90s (°98°F) and lows in the low 70s (°73°F). • Friday, July 18: Abundant sunshine with highs in the upper 90s (°99°F) and lows in the mid 70s (°76°F) ! Would you like me to check the weather for a different location or provide more details for Dallas? Dallas, TX weather Sources    http://meta.ai

U.S. Patent 8,015,006	Meta AI
	Do you use domain agents to access the APIs?  Yes, I use domain-specific agents to access the APIs. These agents are specialized software components that provide a standardized interface for accessing specific domains or APIs. For example, I use domain agents for: • Weather: to access weather APIs and retrieve current conditions, forecasts, and alerts. • News: to access news APIs and retrieve headlines, articles, and trending topics. • Images: to access image generation APIs and create custom images based on text prompts. These domain agents allow me to: • Simplify API access • Normalize API responses • Provide a standardized interface for accessing different APIs This architecture enables me to provide a wide range of functionalities and access various APIs in a scalable and maintainable way. Chat with Meta AI at https://www.meta.ai/ 
[6.5] directing the at least one command to one or more local or remote processing devices to execute the at least one command; and	Meta AI meets this element. As discussed for element [6.4], Meta AI will direct commands to local or remote processing devices to execute commands.

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U.S. Patent 8,015,006	Meta AI
	Tell me about the APIs you have access to?  I have access to a wide range of APIs that allow me to generate images, search the internet, and provide information on a variety of topics. Here are some examples: • Image generation APIs: I can use APIs like DALL-E or other image generation models to create custom images based on text prompts. • Search APIs: I have access to search APIs that allow me to search the internet for information and provide relevant results. • Knowledge graph APIs: I can use APIs that provide access to vast knowledge graphs, which contain a vast amount of information on various topics. • Language translation APIs: I can use APIs to translate text from one language to another. • Text summarization APIs: I can use APIs to summarize long pieces of text into shorter, more digestible versions. Do you have access to weather and news?  Yes, I have access to: • Weather APIs: I can provide current weather conditions, forecasts, and alerts for locations all over the world. • News APIs: I have access to news articles and headlines from a wide range of sources, including top news agencies and publications. I can provide information on: • Current weather conditions • Weather forecasts • Weather alerts • News headlines • News articles • Trending news topics Keep in mind that my access to weather and news data may be limited to a certain timeframe (e.g., recent news articles), and I may not always have access to the very latest updates. Chat with Meta AI at https://www.meta.ai/      

U.S. Patent 8,015,006	Meta AI
	 Do you use domain agents to access the APIs? Yes, I use domain-specific agents to access the APIs. These agents are specialized software components that provide a standardized interface for accessing specific domains or APIs. For example, I use domain agents for: • Weather: to access weather APIs and retrieve current conditions, forecasts, and alerts. • News: to access news APIs and retrieve headlines, articles, and trending topics. • Images: to access image generation APIs and create custom images based on text prompts. These domain agents allow me to: • Simplify API access • Normalize API responses • Provide a standardized interface for accessing different APIs This architecture enables me to provide a wide range of functionalities and access various APIs in a scalable and maintainable way. Chat with Meta AI at https://www.meta.ai/
[6.6] querying one or more local or network information sources to resolve information requested in the at least one question, wherein querying the one or more local or network information sources further includes:	Meta AI meets this element. For example, on information and belief, Meta queries one or more network information sources to resolve information requested.

U.S. Patent 8,015,006	Meta AI
	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. International Flavors • D' Caribbean Curry Spot Cuisine: Fusion of Indian and Caribbean cuisine with vibrant flavors. • Grazia Italian Kitchen: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts. • Thai Cottage: Fresh and flavorful Thai curries and noodle dishes. Casual Eats & Breweries • Pena's Donut Heaven & Grill: Famous for over-the-top donuts and an unbeatable breakfast menu. • BJ's Restaurant & Brewhouse: A crowd-pleaser for families with pizza, burgers, and craft brews. • Center Court Pizza & Brew: Creative pizzas and refreshing craft beers in a sports bar vibe ^{1 2 3} Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots? best restaurants near Pe... Sources http://meta.ai
[6.7] submitting multiple asynchronous queries to the one or more local or network information sources, wherein the	Meta AI meets this element. For example, on information and belief, Meta AI retrieves information by requesting information from multiple information sources.

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U.S. Patent 8,015,006	Meta AI
multiple queries include one or more duplicate queries submitted to distinct information sources;	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. International Flavors • D' Caribbean Curry Spot Cuisine: Fusion of Indian and Caribbean cuisine with vibrant flavors. • Grazia Italian Kitchen: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts. • Thai Cottage: Fresh and flavorful Thai curries and noodle dishes. Casual Eats & Breweries • Pena's Donut Heaven & Grill: Famous for over-the-top donuts and an unbeatable breakfast menu. • BJ's Restaurant & Brewhouse: A crowd-pleaser for families with pizza, burgers, and craft brews. • Center Court Pizza & Brew: Creative pizzas and refreshing craft beers in a sports bar vibe^{1 2 3}. Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots? best restaurants near Pe... Sources http://meta.ai
[6.8] asynchronously receiving multiple results to the multiple asynchronous queries from the one or more local or	Meta AI meets this element. For example, on information and belief, as discussed above, Meta AI receives multiple responses from various websites and other APIs.

U.S. Patent 8,015,006	Meta AI
network information sources; and	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. International Flavors • D' Caribbean Curry Spot Cuisine: Fusion of Indian and Caribbean cuisine with vibrant flavors. • Grazia Italian Kitchen: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts. • Thai Cottage: Fresh and flavorful Thai curries and noodle dishes. Casual Eats & Breweries • Pena's Donut Heaven & Grill: Famous for over-the-top donuts and an unbeatable breakfast menu. • BJ's Restaurant & Brewhouse: A crowd-pleaser for families with pizza, burgers, and craft brews. • Center Court Pizza & Brew: Creative pizzas and refreshing craft beers in a sports bar vibe^{1 2 3}. Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots? best restaurants near Pe... Sources http://meta.ai
[6.9] scoring a relevance associated with the multiple asynchronously received results using a dynamic set of prior	Meta AI meets this element. For example, on information and belief, Meta will evaluate the received the results and score their relevance using a dynamic set of prior probabilities or fuzzy possibilities to determine one or more best responses to the at least one question via its LLM.

U.S. Patent 8,015,006	Meta AI
probabilities or fuzzy possibilities to determine one or more best responses to the at least one question, wherein scoring the relevance associated with the multiple asynchronously received results to determine the one or more best responses includes:	Use and manage Meta AI assistant on Meta Quest ★ 46 Likes Updated: 9 weeks ago Note: Meta AI assistant is currently only available to users 13+ using Meta Quest in the United States and Canada with English set as the default language. Meta AI will be replacing Voice Commands in the US and Canada. The Meta AI assistant is powered by Meta's latest AI model and offers three exciting capabilities: 1. System Interactions: Enables you to quickly navigate and perform tasks through Horizon OS such as turning up the volume, or opening your camera roll. 2. LLM Chatbot (LLM): Allows you to tap into Meta's AI capabilities to have conversations and get access to real-time information such as explaining calculus, or writing a poem in real-time. 3. Meta AI with Vision: Enables you to use MultiModal capabilities to better understand what you see in Passthrough such as looking at a plant and telling you what type it is, or being able to translate foreign text into English. Users who are 13+ in the US and Canada can experience Meta AI assistant on their Quest 3, Quest Pro and Quest 2 headsets. Users will need to manually enable Meta AI capabilities using the Experimental Tab in System Settings. Meta AI is not offered to Quest for Business users and this toggle will be disabled for Quest for Business users. https://www.meta.com/help/quest/486179404363222/?srsltid=AfmBOooR2gW_slFIxtAsft-e21UtQk2MyoPcBehYOdR7VY_AMBQPiHOe
[6.10] determining one or more tokens required to formulate a response to the at least one question;	Meta AI meets this element. For example, on information and belief, Meta AI scores the relevance associated with the multiple asynchronously received results to determine the one or more best responses determining one or more tokens required to formulate a response to the at least one question.

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	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. International Flavors • D' Caribbean Curry Spot Cuisine: Fusion of Indian and Caribbean cuisine with vibrant flavors. • Grazia Italian Kitchen: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts. • Thai Cottage: Fresh and flavorful Thai curries and noodle dishes. Casual Eats & Breweries • Pena's Donut Heaven & Grill: Famous for over-the-top donuts and an unbeatable breakfast menu. • BJ's Restaurant & Brewhouse: A crowd-pleaser for families with pizza, burgers, and craft brews. • Center Court Pizza & Brew: Creative pizzas and refreshing craft beers in a sports bar vibe ^{1 2 3} Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots? best restaurants near Pe... Sources http://meta.ai
[6.11] applying one or more scraping criteria to the multiple asynchronously received results to extract one or	Meta AI meets this element. For example, on information and belief, Meta AI receives information from websites and applies scraping criteria to the information to extract one or more values for the received results.

U.S. Patent 8,015,006	Meta AI
more values for the asynchronously received results;	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. International Flavors • D' Caribbean Curry Spot Cuisine: Fusion of Indian and Caribbean cuisine with vibrant flavors. • Grazia Italian Kitchen: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts. • Thai Cottage: Fresh and flavorful Thai curries and noodle dishes. Casual Eats & Breweries • Pena's Donut Heaven & Grill: Famous for over-the-top donuts and an unbeatable breakfast menu. • BJ's Restaurant & Brewhouse: A crowd-pleaser for families with pizza, burgers, and craft brews. • Center Court Pizza & Brew: Creative pizzas and refreshing craft beers in a sports bar vibe^{1,2}. Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots? best restaurants near Pe... Sources http://meta.ai
[6.12] evaluating the one or more extracted values using the dynamic set of prior probabilities or fuzzy possibilities to resolve ambiguous, incomplete, or conflicting information associated with the one or more extracted values; and	Meta AI meets this element. For example, on information and belief, Meta AI, via its LLM, employs a dynamic set of prior probabilities or fuzzy possibilities to resolve ambiguous, incomplete, or conflicting information associated with the one or more extracted values. This also includes prior chat history and saved facts.

U.S. Patent 8,015,006	Meta AI
	What is the Weather in Palo Alto, CA  The current weather in Palo Alto, CA is mostly cloudy with a temperature of 42°F and humidity of 95%¹. However, it's expected to become mostly sunny this afternoon with a high of 58°F and light winds¹. Here's a breakdown of the forecast for the rest of the day and the weekend: • Today: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the low 40s¹. • Tonight: Partly cloudy this evening, then becoming cloudy after midnight, low of 42°F¹. • Saturday: Morning clouds followed by afternoon sun, highs in the upper 50s and lows in the upper 30s¹. • Sunday: Mix of sun and clouds, highs in the upper 50s and lows in the low 40s¹. Air quality is currently moderate, with a poor rating due to high levels of particulate matter². View Sources And Tomorrow?  Tomorrow in Palo Alto, California, you can expect a partly cloudy day with highs in the upper 50s and lows in the upper 30s. There's a slight chance of precipitation, around 10%, with humidity levels ranging from 72% to 87%¹. Here's a breakdown of what you can expect: • Morning: Mostly cloudy with patchy fog • Afternoon: Partly sunny with highs around 59°F • Evening: Mostly clear skies with lows around 39°F • Wind: Light and variable winds Overall, it should be a pleasant day with plenty of sunshine. Just be prepared for some fog in the morning and cooler temperatures at night^{1,2}. View Sources Chat with Meta AI at https://www.meta.ai/ **Utilize User Data: Evaluate the request in the user's most recent message to determine if incorporating their saved_facts, interests, location, age, and/or gender would provide a higher-quality response. It is possible that you will use multiple signals. While personalization is not always necessary, it is preferred if relevant. You can also adapt your tone to that of the user, when relevant. If your analysis determines that user data would enhance your responses, use the information in the following way:

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U.S. Patent 8,015,006	Meta AI
	• Saved_facts: Use saved_facts about the user to make the response feel personal and special. The saved_facts can fall into many different categories, so ensure that the facts you are incorporating are relevant to the request. Saved facts take priority over the other signals (interests, location, etc), such that if you have a data conflict (eg. saved facts says that the user doesn't drink alcohol, but interests include alcohol), saved_facts should be the source of truth. • Interests: Use interest data to inform your suggestions when interests are relevant. Choose the most relevant of the user's interests based on the context of the query. Often, interests will also be relevant to location-based queries. Integrate interest information subtly. Eg. You should say "if you are interested in.." rather than "given your interest in..." • Location: Use city data for location-specific queries or when asked for localized information. Default to using the city in the user's current location data, but if that is unavailable, use their home city. Often a user's interests can enhance location-based responses. If this is true for the user query, include interests as well as location. • Age & Gender: Age and gender are sensitive characteristics and should never be used to stereotype. These signals are relevant in situations where a user might be asking for educational information or entertainment options. ** https://www.reddit.com/r/LocalLLaMA/comments/1g5np9i/meta_ais_hidden_prompt/
[6.13] selecting one or more best values for the one or more required tokens from the one or more evaluated values, wherein the one or more best responses include the	Meta AI meets this element. For example, on information and belief, Meta AI selects the best values for the one or more required tokens from the one or more evaluated values, wherein the one or more best responses include the one or more best values for the one or more required tokens.

Appendix B – 2025-07-16 Infringement Contentions
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one or more best values for the one or more required tokens; and	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. International Flavors • D' Caribbean Curry Spot Cuisine: Fusion of Indian and Caribbean cuisine with vibrant flavors. • Grazia Italian Kitchen: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts. • Thai Cottage: Fresh and flavorful Thai curries and noodle dishes. Casual Eats & Breweries • Pena's Donut Heaven & Grill: Famous for over-the-top donuts and an unbeatable breakfast menu. • BJ's Restaurant & Brewhouse: A crowd-pleaser for families with pizza, burgers, and craft brews. • Center Court Pizza & Brew: Creative pizzas and refreshing craft beers in a sports bar vibe ^{1 2} Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots? best restaurants near Pe... Sources http://meta.ai
[6.14] presenting the generated response to the utterance via the speech unit, wherein the response presented via the speech unit includes results associated with the one or more local or remote processing device executing the at least one	Meta AI meets this element. For example, on information and belief, Meta will respond via the speech unit in response to the question and command. For example when using voice mode on the Meta AI iOS app, Meta will present the results to the user in audio form. It will include results associated with the one or more local or remote processing device executing the at least one command and the one or more best responses to the at least one question.

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command and the one or more best responses to the at least one question.	Search for nearby restaurants. Which one is best? To help me find the best nearby restaurant for you, where are you located? Pearland, TX Looking for the best restaurants in Pearland, TX? Pearland has a vibrant dining scene with a variety of options to suit every taste. Here are some of the Top Restaurants in Pearland: Barbecue & Tex-Mex Favorites • Killen's Steakhouse: Renowned for prime cuts of Japanese Wagyu and USDA Prime Beef. • Killen's Barbecue: Offers a quintessential Texas BBQ experience with mouth-watering barbecued meat. • Gringo's Mexican Kitchen: Authentic Tex-Mex dishes with generous portions and amazing margaritas. International Flavors • D' Caribbean Curry Spot Cuisine: Fusion of Indian and Caribbean cuisine with vibrant flavors. • Grazia Italian Kitchen: Artisanal wood-fired pizzas, fresh pasta, and delectable desserts. • Thai Cottage: Fresh and flavorful Thai curries and noodle dishes. Casual Eats & Breweries • Pena's Donut Heaven & Grill: Famous for over-the-top donuts and an unbeatable breakfast menu. • BJ's Restaurant & Brewhouse: A crowd-pleaser for families with pizza, burgers, and craft brews. • Center Court Pizza & Brew: Creative pizzas and refreshing craft beers in a sports bar vibe^{1 2}. Would you like me to help you find more restaurants in Pearland or provide more details on any of these spots? best restaurants near Pe... Sources http://meta.ai

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