**Query Perplexity AI from your n8n workflows.txt**

**Workflow Overview: OpenAI Personal Shopper with RAG and WooCommerce**

This workflow is designed to qualify leads for an e-commerce store by using a combination of OpenAI's GPT-4 for natural language understanding and a retrieval-augmented generation (RAG) system to access product data stored in WooCommerce. The workflow follows these primary steps:

1. **User Interaction and Memory Setup:**
   * **Chat Trigger:** The workflow begins with a chat trigger that receives user input via a webhook. This input could be a question or a product inquiry.
   * **Window Buffer Memory:** The workflow uses a memory buffer to store context during the chat session, ensuring that the assistant has access to previous interactions for context-aware responses.
2. **Data Extraction and Preprocessing:**
   * **Edit Fields:** The user input is processed, extracting key fields such as the session ID and the raw chat message.
   * **Information Extractor:** An information extractor node analyzes the chat input to determine whether the user is inquiring about a product. It extracts key search parameters like keywords, price range, SKU, and category.
   * **Enquiry Classifier:** A text classifier node then assesses whether the inquiry is relevant. It checks if the lead is looking for a product, and if so, sets a flag to indicate that further processing should search for relevant products.
3. **Product Search and Qualification:**
   * **WooCommerce Tool:** Depending on the extracted search parameters, a WooCommerce node is triggered to search for products matching the query. The node uses filters such as SKU, price range, and stock status to retrieve relevant product listings.
   * **RAG (Retrieval-Augmented Generation):** The workflow includes a RAG system which uses a vector store (e.g., Qdrant) to retrieve additional contextual data about the product or the store's offerings. The OpenAI Chat Model nodes further refine the search results and generate qualitative assessments of the lead's interest.
   * **Calculator and Embeddings:** Additional nodes, such as a calculator and an embeddings node, help process and enrich the data, ensuring that the search queries are precise and contextually relevant.
4. **Response Generation and CRM Integration:**
   * **OpenAI Chat Models:** Multiple OpenAI Chat Model nodes are involved in processing the conversation. These nodes generate responses to the lead's inquiries and help to qualify the lead based on predetermined criteria (e.g., interest level).
   * **Deal Creation in CRM:** If a lead is determined to be interested (e.g., passes the "IF interested" check), the workflow proceeds to create a new deal in a CRM system (such as Pipedrive). This integrates the lead qualification process with the sales pipeline.
5. **Outcome Handling and Feedback:**
   * **If Nodes:** Conditional logic is applied using "if" nodes to decide whether the lead is interested. Depending on the output of the qualification step, the workflow either creates a deal in the CRM or terminates further processing.
   * **Return Response:** The final output is sent back through the chat trigger, informing the user of the qualification result.
6. **Additional Workflow Documentation:**
   * **Sticky Notes:** Throughout the workflow, sticky note nodes provide inline documentation and instructions. These notes guide users on setup requirements, credential configuration, and how to adapt the workflow to their specific needs.

**Data Flow Summary**

1. **User Input:**
   * A chat trigger receives a message from a user inquiring about a product.
2. **Context Extraction and Qualification:**
   * The input is processed by an information extractor to identify search parameters.
   * A text classifier evaluates the inquiry to determine if the lead is product-related.
3. **Product Search:**
   * The WooCommerce node searches for products based on the extracted parameters.
   * The RAG system retrieves supplementary product data from a vector store (like Qdrant).
4. **Response Generation:**
   * OpenAI Chat Models generate responses that qualify the lead.
   * If the lead qualifies, a CRM deal is created using Pipedrive.
5. **Final Response:**
   * The workflow returns the qualification outcome to the user via the chat interface.

**Customization and Setup**

* **Credentials:**
  + Ensure that credentials for OpenAI, WooCommerce, Pipedrive, and any other integrated services are correctly set up.
* **Search Parameters:**
  + Customize the information extractor’s system prompt to better match the product and lead qualification criteria for your specific store.
* **Workflow Integration:**
  + Connect additional nodes (e.g., for memory buffering or custom response handling) as needed to suit your sales process.
* **Documentation:**
  + Use the inline sticky notes to guide your configuration and ensure that all necessary steps (e.g., setting up custom fields in CRM) are completed.

**Conclusion**

This workflow automates lead qualification for an e-commerce store by combining natural language processing with a retrieval-augmented generation system. It efficiently processes user inquiries, searches for relevant products in WooCommerce, and integrates qualified leads into your CRM system, ultimately streamlining your sales process and improving lead management.