GenAl Stack Demo - Chat with Multiple Websites

Installation

```
In [ ]:
        !pip install genai stack
        Setup your API Key
In [ ]:
        import os
        from getpass import getpass
In [ ]:
        api key = getpass("Enter OpenAI API Key:")
        os.environ['OPENAI API KEY'] = api key
        Import required modules
        from genai stack.stack.stack import Stack
In [ ]:
        from genai stack.etl.langchain import LangchainETL
        from genai stack.embedding.langchain import LangchainEmbedding
        from genai_stack.vectordb.chromadb import ChromaDB
        from genai stack.prompt engine.engine import PromptEngine
        from genai_stack.model.gpt3_5 import OpenAIGpt35Model
        from genai_stack.retriever.langchain import LangChainRetriever
        from genai_stack.memory.langchain import ConversationBufferMemo
        ETL - "Extract, Transform, and Load." Add your data here. Check
        documentation for the required loaders
In [ ]: etl = LangchainETL.from kwargs(name="WebBaseLoader",
                                        fields={"web path":
                                          "https://huggingface.co/google/
                                 }
```

Create Embeddings to store in VectorDB

```
In [ ]:
        config = {
             "model_name": "sentence-transformers/all-mpnet-base-v2",
             "model_kwargs": {"device": "cpu"},
             "encode kwargs": {"normalize embeddings": False},
        embedding = LangchainEmbedding.from_kwargs(name="HuggingFaceEmb")
        Define the VectorDB
In [ ]:
        chromadb = ChromaDB.from kwargs()
        Define your LLM - Large Language Model
        1lm = OpenAIGpt35Model.from_kwargs(parameters={"openai_api_key"})
In [ ]:
        Add Retrieval and Stack all the components
        prompt engine = PromptEngine.from kwargs(should validate=False)
In [ ]:
        retriever = LangChainRetriever.from kwargs()
        memory = ConversationBufferMemory.from kwargs()
        Stack(
             etl=etl,
             embedding=embedding,
             vectordb=chromadb,
             model=llm,
             prompt_engine=prompt_engine,
             retriever=retriever,
             memory=memory
         )
        Run your ETL
In [ ]:
        etl.run()
        prompt1 = "what is the google/gemma-7B?"
In [ ]:
        response = retriever.retrieve(prompt1)
In [ ]:
In [ ]: print(response['output'])
```