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LangChain provides modular components for:
- Prompt templates and prompt chaining
- Memory for conversation and stateful applications
- Indexes for documents and vector databases
- Agents for dynamic task execution based on reasoning
- Tools integration including APIs, file systems, databases

For vector databases, LangChain supports integrations with Pinecone, FAISS, Weaviate, and more. Pinecone, in particular, offers scalable, low-latency vector search which makes it ideal for production-grade semantic search.

Embeddings are essential for converting text to vector space. HuggingFace provides several open-source embedding models such as `sentence-transformers/all-MiniLM-L6-v2`, `all-mpnet-base-v2`, and multilingual variants.

This document is intended to demonstrate the usage of a Telegram bot that connects LangChain to HuggingFace and Pinecone. Through this, users can upload documents, index them into vector storage, and perform natural language search over the content.

Applications include:
- AI-powered personal note retrieval
- Document question answering

- Chatbot memory and context retrieval
- Semantic search over PDFs, emails, and internal docs

The bot processes documents by splitting them into chunks of 1000 characters (with overlap), converts each chunk into embeddings, and stores them in Pinecone for fast similarity search.

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