Agenda

- **What is LangChain?**
- **Key Components of LangChain**
- **Applications and Integrations**
- **Getting Started: Basic LangChain Setup**
- **Building a Simple Application with LangChain**
- **Resources and Further Learning**

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What is LangChain?

- **Software development framework designed to simplify the creation of applications using large language models.**
- **Launched by Harrison Chase in October 2022.**
- **Quickly became popular with hundreds of contributors on GitHub, and has raised significant venture funding.**
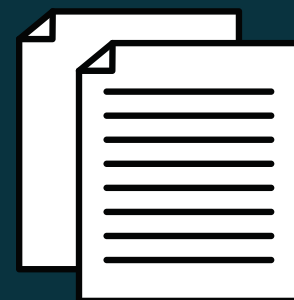
Lamgchain: Combine LLM with external data & apps
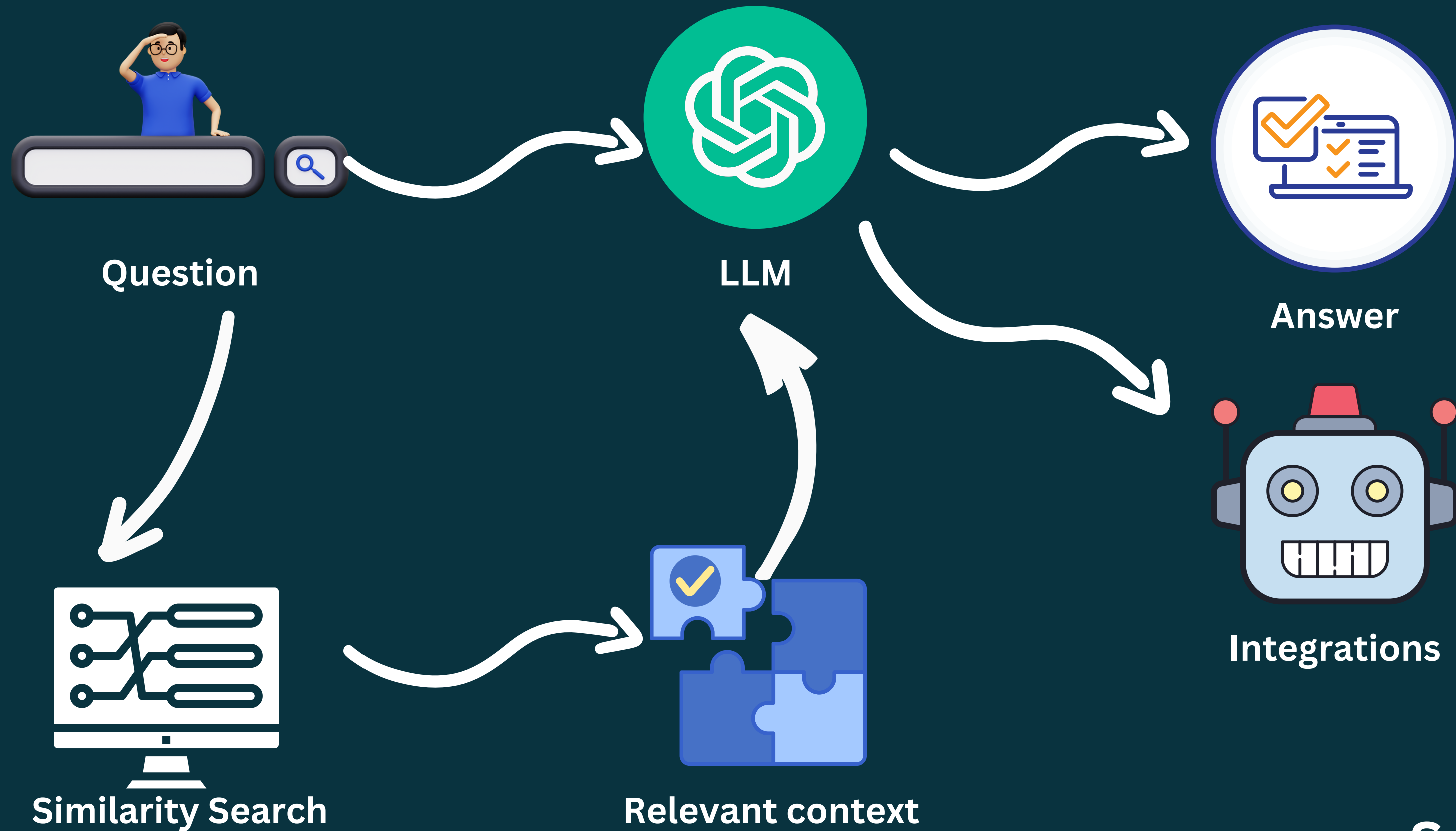

LLM

Question

Langchain

Integrations

Documents

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Pipeline

Question

LLM

Answer

Similarity Search

Relevant context

Integrations

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Key Components of LangChain

- **LangChain is written in Python and JavaScript.**
- **The framework is primarily used for tasks like document analysis and summarization, chatbots, and code analysis.**
- **Some of the key components include Chain, PromptTemplate, and LLMChain.**

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Basic Setup

Installation

```python
pip install langchain
```

Import LangChain

```python
import langchain
```

Setting up the LLM with environment variables

```python
import os
from langchain.chat_models import ChatOpenAI

# Get OpenAI key from environment variables
openai_key = os.getenv('OPENAI_KEY')

# Initialize the language model
llm = ChatOpenAI(key=openai_key)
```

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Applications and Integrations

- **LangChain has integrations with major cloud storage providers, API wrappers, web scraping subsystems, and more.**
- **It can read from more than 50 document types and data sources.**
- **LangChain includes features for text summarization, code generation, and database storage, among others.**

Building an Application

- **Refer to our colab notebook - https://colab.research.google.com/github/Anil-matcha/langchain-course/blob/main/Introduction.ipynb**

Resources and Further Learning

- **Github Repo-
https://github.com/SamurAIGPT/langchain-
course**
- **Twitter: - Ankur & Anil**
- **Discord: https://discord.gg/Mcjm9YShSP**

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Thanks