

# LLM Apps

## Langchain: Models

# What are models?

- They are foundational models upon which LLM applications are built.
- Langchain connects with two types of models:
  - LLMs: receive text, respond with text.
  - Chat Models: receive a chat message, respond with a chat message.

# LLM Model Example: the OpenAI LLM model

- Activation.
  - Remember: you must import your openai api key.
  - OpenAI Module.
- Ways to send an input to the LLM.
  - Parentheses
  - Predict
  - Invoke
- Note: the output is a string of text.

# Other LLMs with native integration

- <https://python.langchain.com/docs/integrations/llms/>
- Example with LLaMA2 model.

# Chat Model Example: Chat Model from OpenAI

- Activation.
  - Remember: you must import your openai api key.
  - ChatOpenAI Module
  - HumanMessage, SystemMessage Modules
- Ways to send an input to the Chat Model.
  - Parentheses
  - Predict
  - Invoke
- Note: the output is an object of the AIMessage class.

# Other chat models with native integration

- <https://python.langchain.com/docs/integrations/chat/>