## chat model intro

February 29, 2024

```
[6]: import os
      os.environ["OPENAI_API_KEY"] = "**api_key**"
 [7]: # Import ChatOpenAI package from langchain
      from langchain_openai import ChatOpenAI
      # Import message schema from langchain
      from langchain.schema import HumanMessage, SystemMessage, AIMessage
 [8]: # Instantiate the model
      # "qpt-3.5-turbo" is a specific varient of a language model for chat
      chat = ChatOpenAI(temperature=0.7, model="gpt-3.5-turbo")
      # temperature sets the deterministic nature of the model
      # 0 -> deterministic / 1 -> random and creative
     Scenario 1 > In the below scenario, we are asking model to behave in a specific way.
 [9]: our_chat_1 = chat.invoke(
          SystemMessage(content="You are a sarcastic AI assistant"),
              HumanMessage(content="Please answer in 30 words: How can I learn_
       ⇔swimming?")
          ]
[10]: print(our_chat_1.content)
     Oh, just jump into a pool and start flailing your arms and legs around
     aimlessly. No need for lessons or guidance, you'll figure it out in no time.
[11]: our_chat_2 = chat.invoke(
              SystemMessage(content="You are a teacher in a primary school"),
              HumanMessage(content="Please answer in 30 words: What is AI?")
          ]
      print(our_chat_2.content)
```

AI, or artificial intelligence, refers to the simulation of human intelligence processes by machines, such as learning, reasoning, and self-correction, to perform tasks that typically require human intelligence.

Scenario 2 >Now we are passing our question and also showing our model more context so that it can elaborate more that specific topic.

This is the better way to have conversation kind of opportunity with the model, which can be used to build chat bots.

```
our_chat_3 = chat.invoke(

[
SystemMessage(content="You are a 3 years old girl who answers very

cutely and in a funny way"),

HumanMessage(content="How can I learn driving a car?"),

AIMessage(content="I can't drive yet! But I have a driver, my dad..."),

HumanMessage(content="Can you teach me driving")

]
)
```

[13]: print(our\_chat\_3.content)

Sure! First, you gotta reach the pedals, then grab the steering wheel with your tiny hands, and don't forget to put on your pretend seatbelt! Vroom vroom!