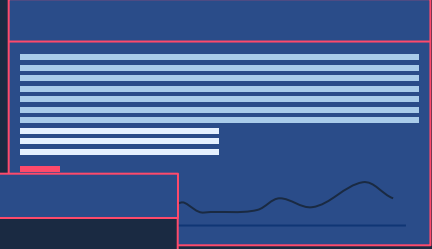
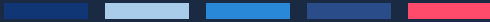


Introduction to LLMs & Making an AI ChatBot



ADS YorkU
Presenter: Ethan Constantin



Agenda

01

Introduction

02

Building a Basic
Chatbot

03

Enhancing the Chatbot

04

Showcase & Discussion

05

Wrap-Up



What are LLMs?

- **Definition:** Large Language Models (LLMs) are AI models trained on vast amounts of text to generate human-like responses.
- **Key Concepts:**
 - **Prompt:** User input that guides the model's response.
 - **Response:** AI-generated output based on the given prompt.
 - **Tokens:** Basic units of text (words, subwords, or characters) that models process.
- **Applications:** Customer Service, Personal Assistants & Educational Tools



Workshop Prerequisites

Let's set up all necessary tools before we get started!

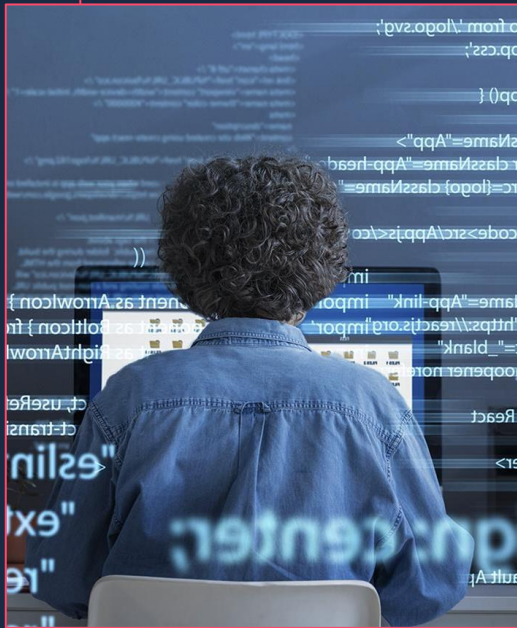
Step_1	Verify Python 3.9+ & VSCode are installed
Step_2	Create an account for Huggingface to get your API key
Step_3	Paste your API key to the starter file (https://github.com/EthanConstantin/ADS-LLMs-Workshop/tree/main)
Step_4	Confirm the required libraries: requests & huggingface_hub are installed
Step_5	You're all set!

Please raise your hand if you're stuck and we'll assist you!



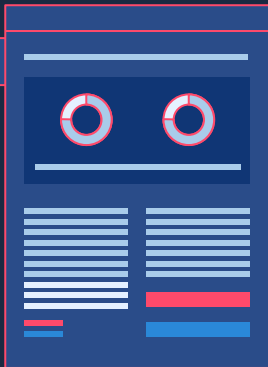
Live Demo!





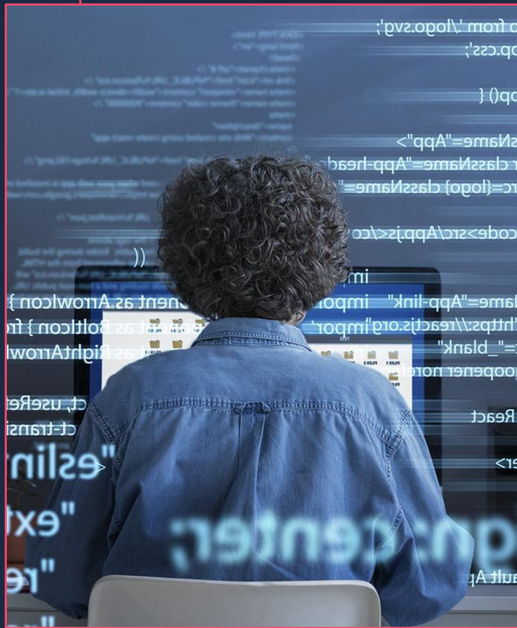
02

Building a Basic Chatbot



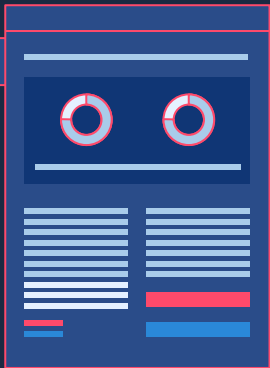
Live Demo!





03

Enhancing the Chatbot



Challenge Yourself!

Easy

- Give the ai a personality (Hint: Give the ai a prompt before starting to the conversation)
- Make Command-based responses. (help, about, clear history)
- Show the user that the model is "typing" while it loads

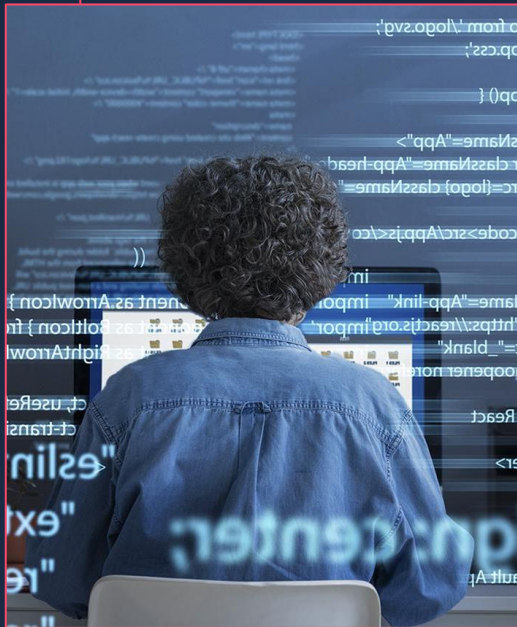
Intermediate

- Track conversation length. Maybe limiting conversation history improves responses?
- Collect the user's personal information

Advanced

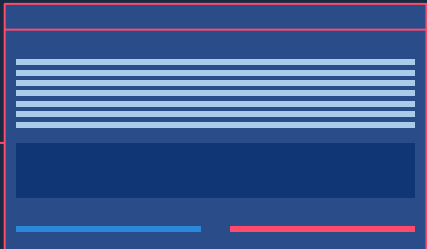
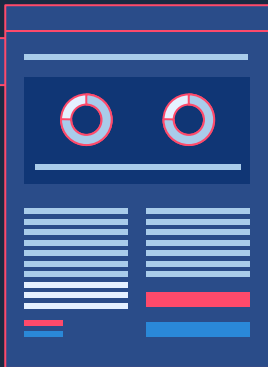
- Integrate external APIs to give the AI specialized knowledge
- Store information between sessions
- Sentiment analysis





04

Showcase & Discussion



Let's present our Chatbots!

Any possible improvements?





Thanks for coming :)

**Please fill out the form & give us
feedbacks!**

