Week (Dates)	Topics & Objectives
1 (Aug 1–7)	Topic: Introduction to large language models (LLMs) and Transformer architecture (e.g GPT, Llama)[1]. Objectives: Understand tokenization and self-attention in Transformers[2]; set up Python

environment.

Project - Write a Python script to call an LLM (e.g., OpenAl GPT-4) for a simple task (text summarizatio n or Q&A).
-Tokenize sample text using Hugging Face's tokenizers.

Hands-on

Resources - OpenAl API docs — official API reference.
r>- How Transformer LLMs Work (course)[2].
br>- LLM Architecture (Medium).

Relevant

Links &

Materials/Activities - Install required Python packages (openai, transformers).
 br>- Watch an intro video on transformers (e.g., Jay

Alammar's *Illustrated*

Transformer).

Supplementary

Sources: Authoritative tutorials and documentation (as cited above) were used to inform topics and tools[2][1][3][4].

[1] [2] How Transformer LLMs Work - DeepLearning.Al

https://www.deeplearning.ai/short-courses/how-transformer-llms-work/

[3] [4] Best practices for prompt engineering with the OpenAl API | OpenAl Help Center

https://help.openai.com/en/articles/6654000-best-practices-for-prompt-engineering-with-the-openai-api