

Worksheet: GenAI Environment Initialization

This worksheet guides you through setting up your environment for Generative AI development.

Step 1: Install Required Libraries

Run the following command in your terminal/Anaconda environment to install the core GenAI packages:

```
pip install langchain openai transformers python-dotenv
```

Step 2: Security & Authentication

Never hardcode your API keys directly into your scripts. Use environment variables instead.

```
import os
# Set your API Key securely
os.environ["OPENAI_API_KEY"] = "your-actual-api-key-here"
```

Warning: Keep your API keys private. Do not commit them to version control (e.g., GitHub).

Step 3: Verify Installation

Run this simple snippet to confirm your setup can communicate with the OpenAI API:

```
from langchain.llms import OpenAI
llm = OpenAI(temperature=0.7)
print(llm("What is the future of GenAI?"))
```