## **Topic 2: Open Source LLMs & Local Setup**

## **Assignment 2: Local LLM Installation and Testing**

## **Objective**

Install a local LLM and test its functionality.

# **Experiment Setup**

- 1. Installed **Ollama** on Windows.
- 2. Pulled the **LLaMA 2** model using:
- 3. ollama pull llama2
  - o Setup took ~60 minutes (model size ~3.8 GB).
- 4. Verified installation:
- 5. ollama --version
- 6. Tested the model with prompts.

#### **Screenshots**

- Successful pull of LLaMA 2 model.
- Execution in Command Prompt.
- Poems generated on topics "girl" and "AI".

### Sample Prompt and Output

**Prompt 1:** Write poem on girl **Output:** 

```
C:\Users\lenovo>ollama run llama2 "write poem on girl"

A gentle breeze, a ray of sun,
Brings life to the world, for fun.
In every corner, she's found,
A smile so bright, without a sound.

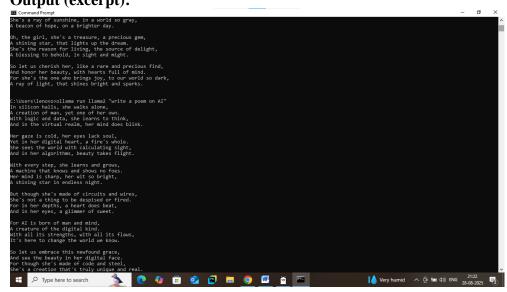
Her eyes, like stars, shine bright,
A beauty that takes flight.
Her laughter echoes through the land,
A joy that takes command.

With grace and poise, she walks,
A vision that talks.
Her spirit soars on wings of love,
A heart that beats from above.

In every moment, she's true,
A gem that shines anew.

With a_
```

# **Prompt 2:** Write poem on AI **Output (excerpt):**



# Reflection

- Installation was successful but time-consuming (~1 hour).
- Model worked smoothly once installed.
- No major errors, but downloading a large model required stable internet.
- Running LLMs locally is feasible, but resource intensive.