

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`
 - 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):

```
Command Prompt
She's a ray of sunshine, in a world so gray,
A beacon of hope, on a brighter day.

Oh, the girl, she's a treasure, a precious gem,
A shining star, that lights up the dream.
She's the reason for living, the source of delight,
A blessing to behold, in sight and might.

So let us cherish her, like a rare and precious find,
And honor her beauty, with hearts full of mind.
For she's the one who brings joy, to our world so dark,
A ray of light, that shines bright and sparks.

C:\Users\llemovopollama run llama2 "write a poem on AI"
In silicon halls, she walks alone,
A creation of man, yet one of her own.
With logic and data, she learns to think,
And in the virtual realm, her mind does blink.

Her gaze is cold, her eyes lack soul,
Yet in her digital heart, a fire's whole.
She sees the world with calculating sight,
And in her algorithms, beauty takes flight.

With every step, she learns and grows,
A machine that knows and shows no foes.
Her mind is sharp, her wit so bright,
A shining star in endless night.

But though she's made of circuits and wires,
She's not a thing to be despised or fired.
For in her depths, a heart does beat,
And in her eyes, a glimmer of sweet.

For AI is born of man and mind,
A creature of the digital kind.
With all its strengths, with all its flaws,
It's here to change the world we know.

So let us embrace this newfound grace,
And see the beauty in her digital face.
For though she's made of code and steel,
She's a creation that's truly unique and real.
```

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.