DSCI 560: Group Laboratory 9

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Installation

Install the Ollama on your local machine: https://ollama.com

Open the terminal and execute the following commands to download the required open-source models:

```
1  # Download Embeding Model:
2  ollama pull nomic-embed-text
3
4  # Download Large Language Model:
5  ollama run gemma3:27b-it-q4_K_M
```

Install the required Python Libraries:

1. Install the `faiss` library:

```
1  pip install faiss
```

2. Install the `ollama` library:

```
1   pip install ollama
```

3. Install the `PyPDF2` library:

```
1   pip install PyPDF2
```

4. Install the `flask` library:

```
1   pip install flask
```

5. Install the `dotenv` library:

```
1   pip install dotenv
```

9. Install the `numpy` library:

```
1   pip install numpy
```

Execution

Step 1. Execute the `app.py` script:

```
1   python3 app.py
```

Step 2. Open your browser and enter the following address:

```
1   http://127.0.0.1:5000
```

Step 3. Upload PDF file(s) and click the `Upload` bottom.

Step 4. Click the `Analyze PDFs` bottom

Step 5. Ask questions and get answers!