## (TR-103) PROMPT ENGINEERING -

# **Training Day 5 Report:**

#### Task 1:

- To develop a Python-based chatbot that interacts with the user in a loop.
- To accept a website URL input from the user.
- To automatically fetch and clean the website's HTML content
- To summarize the cleaned content using Google's model.
- To generate the summary in a well-structured Markdown format using headings, bullet points.
- To extract and categorize Internal links and External links.
- To save each website's summary in a uniquely named .md file based on its URL.
- To display both the generated summary and the extracted links in the console.
- To provide an interactive loop allowing users to summarize multiple websites one after another.

## **Outputs:**

```
PS C:\Users\jaspi\OneDrive\Desktop\NEW_CHATBOT> python app.py

# Website Summarizer Chatbot (Gemini 2.0 Flash Lite)

# Enter website URL to summarize: https://www.gndec.ac.in/

Fetching content and links...

# Generating summary...

* Summary (Markdown Format):

# Guru Nanak Dev Engineering College (GNDEC), Ludhiana - Summary

## About

* Established in 1956 by the Nankana Sahib Education Trust (NSET).

* Affiliated with I.K. Gujral Punjab Technical University (IKGPTU).

* Approved by the All India Council for Technical Education (AICTE).

* Autonomous status granted by UGC in 2012.

## Key Features

* Accredited by NAAC with an "A" Grade.

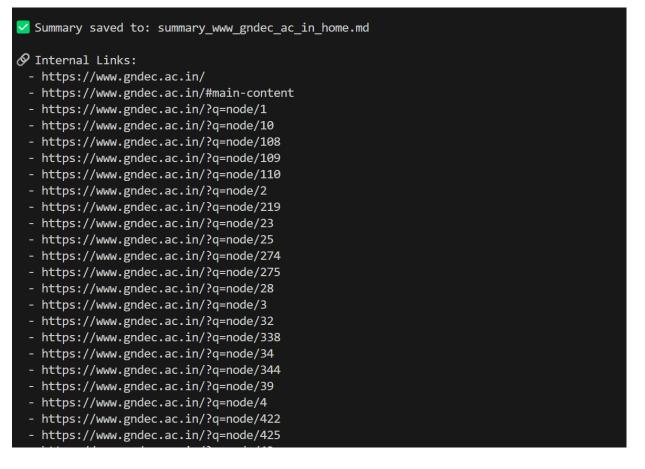
* ISO 9001-2015 Certified.

* Recognized by TCS for placements.
```

CRN:2215199

By: Jaspinder Kaur Walia URN:2203843

```
## Key Features
    Accredited by NAAC with an "A" Grade.
    ISO 9001-2015 Certified.
    Recognized by TCS for placements.
    Offers various undergraduate (UG) and postgraduate (PG) programs, including Ph.D.
    Consistently ranked among the top engineering colleges in India.
## Departments
    School of Architecture
    Applied Science
    Civil Engineering
    Electrical Engineering
    Mechanical & Production Engineering
    Electronics & Communication Engineering
    Computer Science & Engineering
    Information Technology
    Business Administration
    Computer Applications
## Facilities
    Hostels
    Computer Center
    Library
    Sports
```



```
    External Links:
 - http://103.66.206.213/piwigo/
 - http://alumni.gndec.ac.in
 - http://cc.gndec.ac.in
 - http://gndec.ac.in/press
 - http://guru.gndec.ac.in/
 - http://library.gndec.ac.in/
 - http://sports.gndec.ac.in
 - http://vidyanjali-he.education.gov.in/
 - https://academics.gndec.ac.in/
 - https://academics.gndec.ac.in/programs/
 - https://admission.gndec.ac.in/
 - https://admission.gndec.ac.in/Fee_Structure.php
 - https://admission.gndec.ac.in/important_notices.php
 - https://appsc.gndec.ac.in/
 - https://architecture.gndec.ac.in/
 - https://ce.gndec.ac.in/
 - https://cml.gndec.ac.in
 - https://cse.gndec.ac.in/
 - https://ece.gndec.ac.in/
 - https://ee.gndec.ac.in/
 - https://erp.gndec.ac.in/notice
 - https://exam.gndec.ac.in/
 - https://fmcrs.gndec.ac.in
 - https://gndec-2021.github.io/Newsletter 2024/
  https://gndec.ac.in
```

#### Task 2:

- Prompt the user to enter a text description (prompt) for the image they want to generate.
- Use the Hugging Face Inference API to send the user's prompt to the stabilityai/stable-diffusion-3.5-large model.
- Authenticate the API request using a valid Hugging Face access token.
- Use the Python Imaging Library (PIL) to read and display the image to the user.

### **Output:**

```
PS C:\Users\jaspi\OneDrive\Desktop\IMAGE GENERATION> python test.py

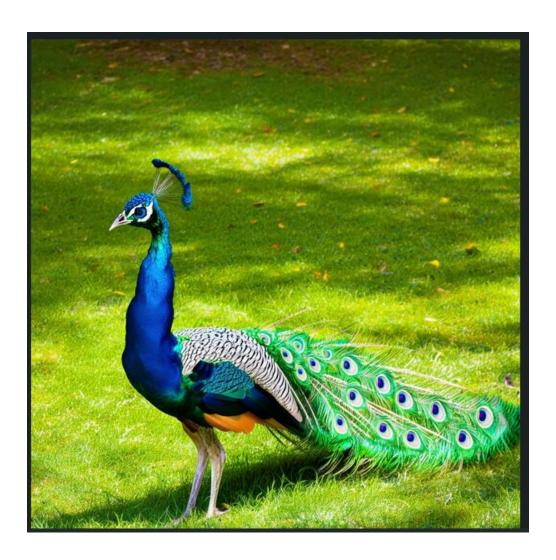
Enter a prompt to generate an image: A colorful peacock on green grass during daylight

PS C:\Users\jaspi\OneDrive\Desktop\IMAGE GENERATION>
```

By: Jaspinder Kaur Walia

URN:2203843

CRN:2215199



### **Homework:**

- Takes a summary from a .md file generated by the website summarizer chatbot.
- Rephrases the summary using the Gemini model.
- Makes the content sound more natural, reader-friendly, and human-like.
- Displays the rephrased summary using a typewriter-style animation.
- Saves the rephrased summary into a new markdown file with a rephrased\_prefix.

By: Jaspinder Kaur Walia

URN:2203843

CRN:2215199

### **Output:**

