

(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.
```

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

✓ Summary saved to: summary_www_gndec_ac_in_home.md

🔗 Internal Links:

- <https://www.gndec.ac.in/>
- <https://www.gndec.ac.in/#main-content>
- <https://www.gndec.ac.in/?q=node/1>
- <https://www.gndec.ac.in/?q=node/10>
- <https://www.gndec.ac.in/?q=node/108>
- <https://www.gndec.ac.in/?q=node/109>
- <https://www.gndec.ac.in/?q=node/110>
- <https://www.gndec.ac.in/?q=node/2>
- <https://www.gndec.ac.in/?q=node/219>
- <https://www.gndec.ac.in/?q=node/23>
- <https://www.gndec.ac.in/?q=node/25>
- <https://www.gndec.ac.in/?q=node/274>
- <https://www.gndec.ac.in/?q=node/275>
- <https://www.gndec.ac.in/?q=node/28>
- <https://www.gndec.ac.in/?q=node/3>
- <https://www.gndec.ac.in/?q=node/32>
- <https://www.gndec.ac.in/?q=node/338>
- <https://www.gndec.ac.in/?q=node/34>
- <https://www.gndec.ac.in/?q=node/344>
- <https://www.gndec.ac.in/?q=node/39>
- <https://www.gndec.ac.in/?q=node/4>
- <https://www.gndec.ac.in/?q=node/422>
- <https://www.gndec.ac.in/?q=node/425>

🌐 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> █
```



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.

Output:

```
PS C:\Users\jaspi\OneDrive\Desktop\NEW_CHATBOT> python typewriter.py
📄 Rephrase Summary with Typewriter Effect

📁 Enter summary markdown filename (e.g., summary_example_com.md): C:\Users\jaspi\OneDrive\Desktop\NEW_CHATBOT\summary_www_gndec_ac_in_home.md

🔄 Rephrasing summary using Gemini...

🔔 Rephrased Summary (Typewriter Style):

Okay, here's a more reader-friendly summary of Guru Nanak Dev Engineering College (GNDEC) in Ludhiana:

# Guru Nanak Dev Engineering College (GNDEC) - A Quick Look

## What's the Deal?

* GNDEC has been around since 1956, thanks to the Nankana Sahib Education Trust (NSET).
* It's connected with I.K. Gujral Punjab Technical University (IKGPTU).
* Also, it's got the thumbs up from the All India Council for Technical Education (AICTE).*
  In 2012, it got the special "autonomous" status from the UGC.
```

```
## Famous Faces (Alumni)

* You'll find a list of successful graduates, including their graduation year, what they're doing now, and where they work or study.
* They have alumni in various engineering fields and business administration.

## Getting In - Admissions

* Here's where you'll find info on how to apply and important deadlines.
* You can also get in touch with them using provided contact numbers for any admission related queries.

## Other Useful Stuff

* They have help desk and helpline numbers if you need assistance.
* You can check out the college Newsletter and Magazine.
* There's information about the National Cyber Crime Portal.
* They also have an e-library app.

✅ Rephrased summary saved to: rephrased_summary_www_gndec_ac_in_home.md
```