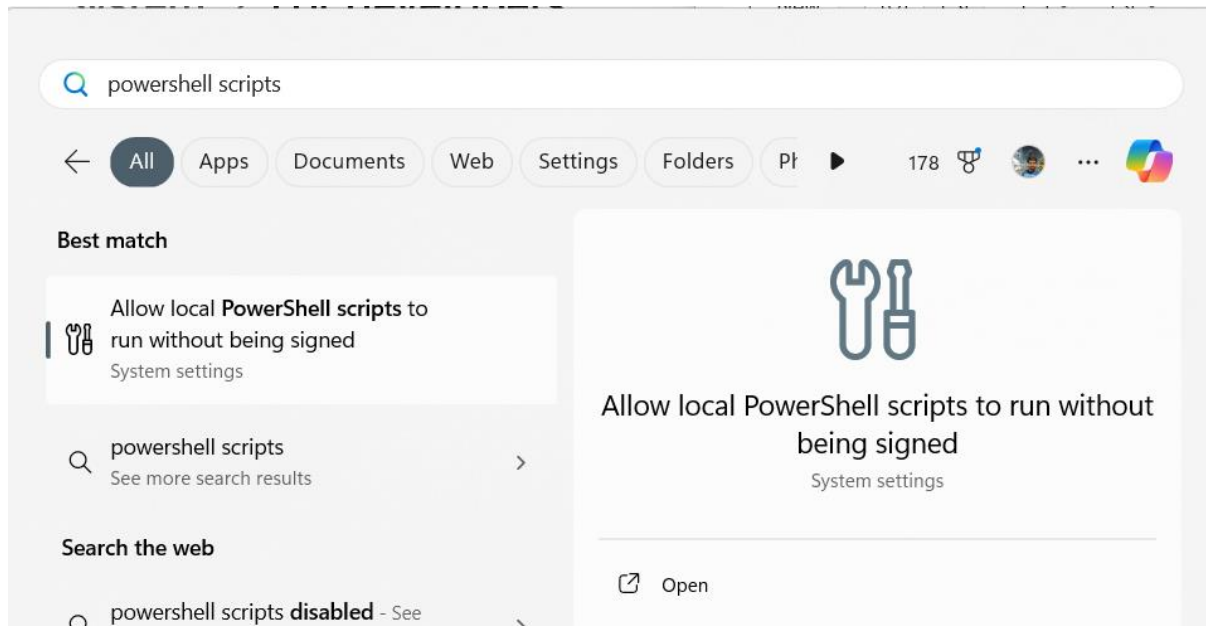


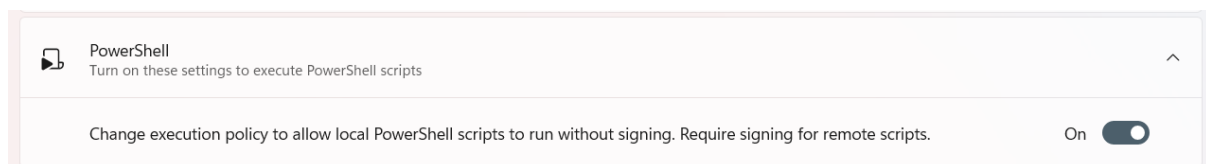
****This application is initialised and tested by Google Collab code within the file named “langchain_textsum(datasettesting)” You can run that code in Google Collab to check results. ****

How to Start the Application?

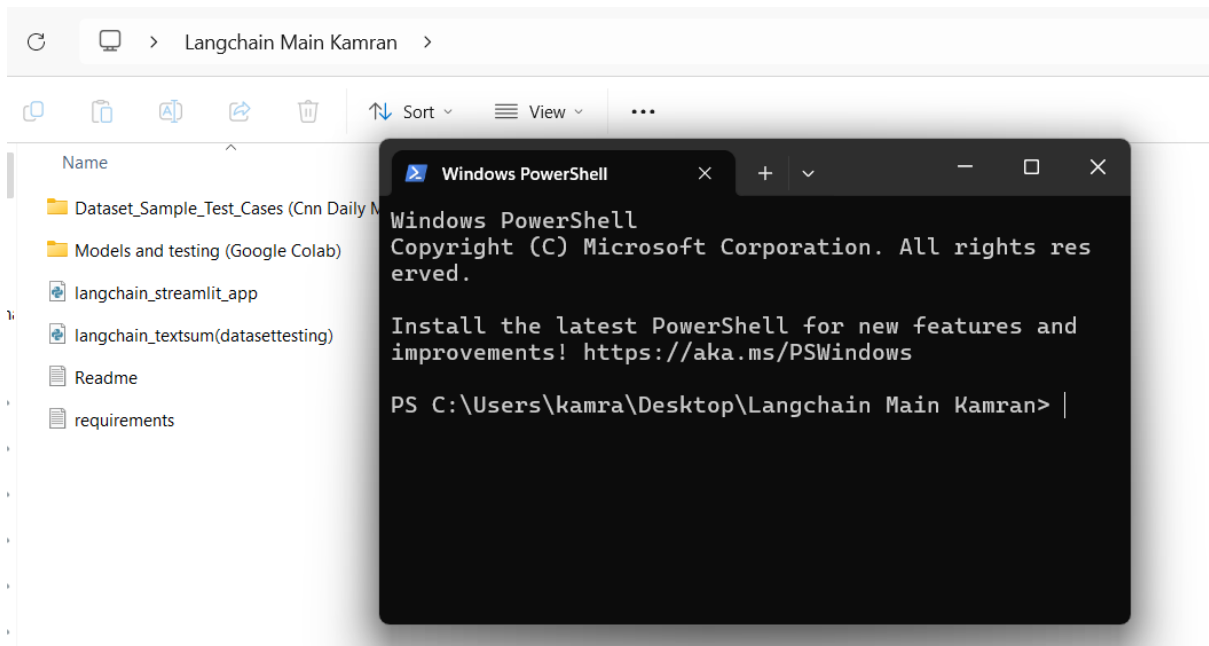
- 1) Download python and install it (<https://www.python.org/downloads/>)
- 2) Press the window key and search for as in the figure:



- 3) Turn the execution policy on.



- 4) Open the source folder right-click at the space on the screen and click open in terminal as below :



- 5) Now create virtual environment by typing “python -m venv LangSum ” and activate the scripts by “.\LangSum\Scripts\activate ”

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\kamra\Desktop\Langchain Main Kamran> python -m venv LangSum
PS C:\Users\kamra\Desktop\Langchain Main Kamran> .\LangSum\Scripts\activate
(LangSum) PS C:\Users\kamra\Desktop\Langchain Main Kamran> |
```

- 6) Now to install the dependencies type “pip install -r .\requirements.txt” (please be patient, it will take some time)

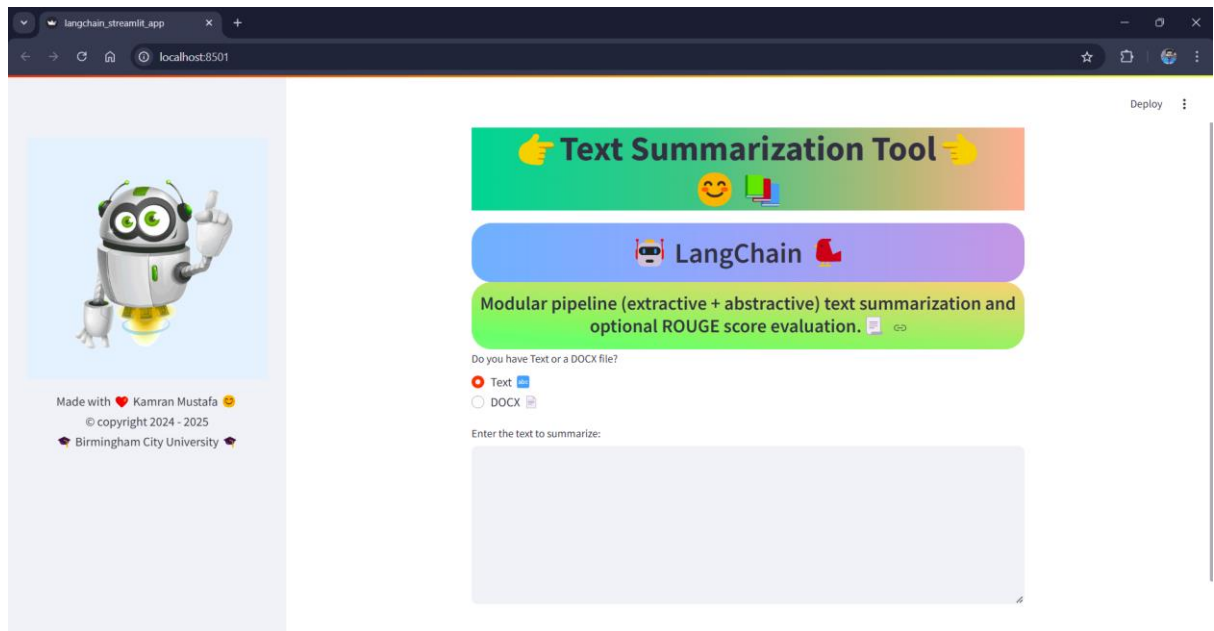
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\kamra\Desktop\Langchain Main Kamran> .\LangSum\Scripts\activate
(LangSum) PS C:\Users\kamra\Desktop\Langchain Main Kamran> pip install -r .\requirements.txt
```

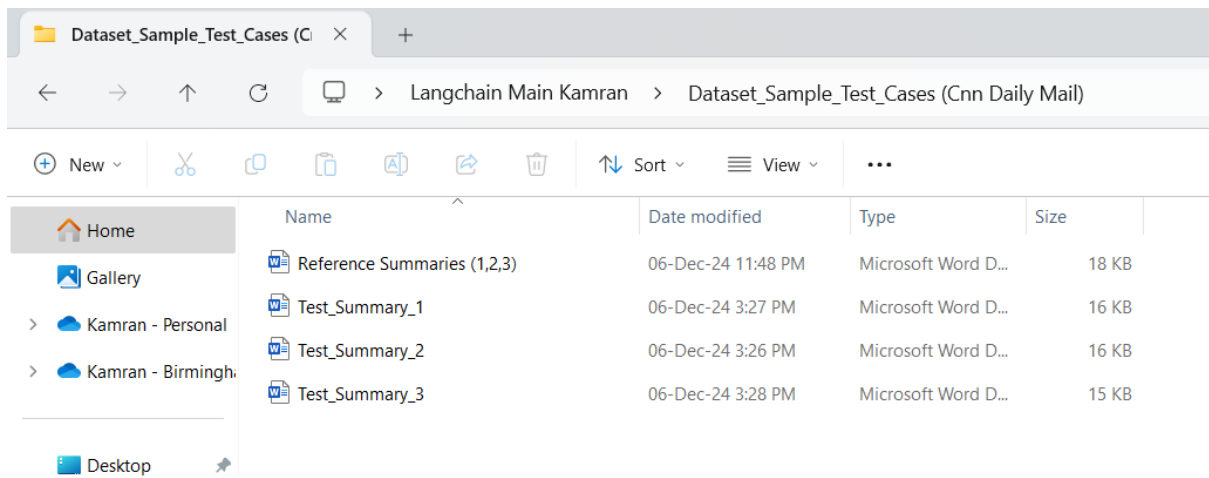
- 7) At this point it will take some time:

```
Windows PowerShell
Using cached setuptools-75.6.0-py3-none-any.whl (1.2 MB)
Using cached h11-0.14.0-py3-none-any.whl (58 kB)
Using cached mpmath-1.3.0-py3-none-any.whl (536 kB)
Using cached sniffio-1.3.1-py3-none-any.whl (10 kB)
Installing collected packages: pytz, mpmath, docopt, xxhash, watchdog, urllib3,uritools, tzdata, typing-extensions, tornado, toml, threadpoolctl, tenacity, sympy, sniffio, smmap, six, setuptools, safetensors, rpd-py, regex, PyYAML, python-dotenv, pyrsistent, pygments, pycountry, pyarrow, protobuf, propcache, platformdirs, pillow, path, packaging, orjson, numpy, networkx, narwhals, mypy-extensions, multidict, mdurl, MarkupSafe, lxml, jsonpointer, joblib, idna, httpx-sse, h11, greenlet, fsspec, frozenlist, filelock, dill, colorama, charset-normalizer, charDET, certifi, cachetools, blinker, attrs, annotated-types, aiohappyeyeballs, absl-py, yarl, urlxtract, typing-inspect, tqdm, SQLAlchemy, scipy, rouge, requests, referencing, python-docx, python-dateutil, pydantic-core, path.py, multiprocessing, marshmallow, markdown-it-py, jsonpatch, Jinja2, httpcore, gitdb, click, breadability, anyio, aiosignal, torch, scikit-learn, rich, requests-toolbelt, pydeck, pydantic, pandas, nltk, lext_rank, jsonschema-specifications, huggingface-hub, httpx, gitpython, dataclasses-json, aiohttp, tokenizers, sumy, rouge_score, pydantic-settings, langsmith, jsonschema, transformers, langchain-core, datasets, altair, streamlit, sentence-transformers, langchain-text-splitters, langchain-huggingface, langchain, langchain-community
```



How to Use the Application?

- 1) Once the application is started if you want to test the summary you can check a folder named "Dataset_Sample_Test_Cases (CNN Daily Mail)" where you can find test summaries in Word files and there are reference summaries in single-word file.



You can use the link to the dataset as mentioned:

https://huggingface.co/datasets/abisee/cnn_dailymail/viewer/3.0.0/test?row=2

← → ↺ 🏠 🌐 https://huggingface.co/datasets/abisee/cnn_dailymail/viewer/3.0.0/test?row=2

Datasets: ● abisee/ **cnn_dailymail** 📄 🍷 like 229 Dataset card

Subset (3)
3.0.0 · 312k rows


Split (3)
test · 11.5k rows

🔍 Search this dataset

article	highlights
string · lengths 3.8k-4.97k 18.8%	string · lengths 51-387 81%
(CNN)The Palestinian Authority officially became the 123rd member of the International Criminal Court on Wednesday, a step that gives the court...	Membership gives the ICC jurisdiction over alleged crimes committed in Palestinian territories since last June . Israel and the United States...
(CNN)Never mind cats having nine lives. A stray pooch in Washington State has used up at least three of her own after being hit by a car,...	Theia, a bully breed mix, was apparently hit by a car, whacked with a hammer and buried in a field . "She's a true miracle dog and she deserve...
(CNN)If you've been following the news lately, there are certain things you doubtless know about Mohammad Javad Zarif. He is, of course, the Iranian foreign minister. He has been U.S. Secretary of State John Kerry's opposite number in securing a breakthrough in nuclear discussions that could lead to an end to sanctions against Iran -- if the details can be worked out in the coming weeks. And he received a hero's welcome as he arrived in Iran on a sunny Friday morning. "Long live Zarif," crowds chanted as his car rolled slowly down the packed street. You may well have read that he is "polished" and, unusually for one burdened with such weighty issues, "jovial." An Internet search for "Mohammad Javad Zarif" and "jovial" yields thousands of results. He certainly has gone a long way to bring Iran in from the cold and allow it to rejoin the international community. But there are some facts about Zarif that are less well-known. Here are six: . In September 2013, Zarif tweeted "Happy Rosh Hashanah," referring to the Jewish New Year. That prompted Christine Pelosi, the daughter of House Minority Leader Nancy Pelosi, to respond with a tweet of her own: "Thanks. The New Year would be even sweeter if you would end Iran's Holocaust denial, sir." And, perhaps to her surprise, Pelosi got a response. "Iran never denied it," Zarif tweeted back. "The man who was perceived to be denying it is now gone. Happy New Year." The reference was likely to former Iranian President Mahmoud Ahmadinejad, who had left office the previous month. Zarif was nominated	Mohammad Javad Zarif has spent more time with John Kerry than any other foreign minister . He once participated in a takeover of the Iranian Consulate in San Francisco . The Iranian foreign minister tweets in English .

- 2) You can select text if you want to copy and paste the text and if you have reference summary select “yes” otherwise “no”.

← → ↺ 🏠 🌐 localhost:8501



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Do you have Text or a DOCX file?

☒ Text 📄 ☐ DOCX 📄

Enter the text to summarize:

Francisco. The aim, says the website Iranian.com -- which cites Zarif's memoirs, titled "Mr. Ambassador" -- was to expel from the consulate people who were not sufficiently Islamic. Later, the website says, Zarif went to make a similar protest at the Iranian mission to the United Nations. In response, the Iranian ambassador to the United Nations offered him a job. In fact, he has now spent more time with Kerry than any other foreign minister in the world. And that amount of quality time will only increase as the two men, with help from other foreign ministers as well, try to meet a June 30 deadline for nailing down the details of the agreement they managed to outline this week in Switzerland.

Do you have a reference summary?


☐ No ☒ Yes

Enter the reference summary:

Mohammad Javad Zarif has spent more time with John Kerry than any other foreign minister . He once participated in a takeover of the Iranian Consulate in San Francisco . The Iranian foreign minister tweets in English .

Summarize Text


- 3) Same thing is for docs just upload the document having text I already have in the folder “Dataset_Sample_Test_Cases (CNN Daily Mail)”: Test_Summary_1, 2,3 and get reference summary from the file named “Reference Summaries (1,2,3)”




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Optional ROUGE Score Evaluation

Do you have Text or a DOCX file?


☐ Text 

☒ DOCX 

Upload your DOCX file:

 Drag and drop file here
Limit 200MB per file • DOCX

Browse files

 Test_Summary_1.docx 15.7KB ×

Text extracted successfully! Proceed to summarization.

Do you have a reference summary?


☒ No

☐ Yes

Summarize Text


4) Click on “Summarise Text ”

5) Processing will take place and give you the results.



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Enter the reference summary:

Mohammad Javad Zarif has spent more time with John Kerry than any other foreign minister . He once participated in a takeover of the Iranian Consulate in San Francisco . The Iranian foreign minister tweets in [English](#) .  3

Summarize Text

Generated Summary:

Mohammad Javad Zarif was among the students who took over the Iranian Consulate in San Francisco. He has now spent more time with Kerry than any other foreign minister in the world.

ROUGE Scores:

ROUGE1: Precision: 0.7188, Recall: 0.6571, F1 Score: 0.6866

ROUGE2: Precision: 0.4839, Recall: 0.4412, F1 Score: 0.4615

ROUGEL: Precision: 0.5000, Recall: 0.4571, F1 Score: 0.4776