

connecting to our kubernetes cluster

```
kabadayi19616@cloudshell:~ (cloudhmv) $ gcloud container clusters get-credentials cluster-1 --zone us-central1-c --project cloudhmv
Fetching cluster endpoint and auth data.
kubeconfig entry generated for cluster-1.
```

Download the latest shell script

wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh

Make the miniconda installation script executable

chmod +x Miniconda3-latest-Linux-x86_64.sh

```
kabadayi19616@cloudshell:~ (cloudhmv) $ wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh
--2022-04-09 21:16:20-- https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh
Resolving repo.anaconda.com (repo.anaconda.com)... 104.16.131.3, 104.16.130.3, 2606:4700::6810:8303, ...
Connecting to repo.anaconda.com (repo.anaconda.com)|104.16.131.3|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 75660608 (72M) [application/x-sh]
Saving to: 'Miniconda3-latest-Linux-x86_64.sh'

Miniconda3-latest-Linux-x86_64.sh      100%[=====>] 72.16M  95.6MB/s   in 0.8s

2022-04-09 21:16:21 (95.6 MB/s) - 'Miniconda3-latest-Linux-x86_64.sh' saved [75660608/75660608]
```

```
kabadayi19616@cloudshell:~ (cloudhmv) $ chmod +x Miniconda3-latest-Linux-x86_64.sh
```

Run miniconda installation script

```
no change      /home/kabadayi19616/miniconda3/shell/condabin/Conda.psm1
no change      /home/kabadayi19616/miniconda3/shell/condabin/conda-hook.ps1
no change      /home/kabadayi19616/miniconda3/lib/python3.9/site-packages/xontrib/c
no change      /home/kabadayi19616/miniconda3/etc/profile.d/conda.csh
modified       /home/kabadayi19616/.bashrc

==> For changes to take effect, close and re-open your current shell. <==

If you'd prefer that conda's base environment not be activated on startup,
set the auto_activate_base parameter to false:

conda config --set auto_activate_base false

Thank you for installing Miniconda3!
kabadayi19616@cloudshell:~ (cloudhmv) $
```

Create and activate a Python environment

```
(base) kabadayi19616@cloudshell:~ (cloudhmv)$ conda create -n myenv python=3.6
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
  current version: 4.11.0
  latest version: 4.12.0

Please update conda by running

  $ conda update -n base -c defaults conda
```

Download the project from github

```
(myenv) kabadayi19616@cloudshell:~ (cloudhmv)$ git clone https://github.com/Quan25/flask-summary.git final_project
Cloning into 'final_project'...
remote: Enumerating objects: 191, done.
remote: Counting objects: 100% (191/191), done.
remote: Compressing objects: 100% (136/136), done.
remote: Total 191 (delta 91), reused 148 (delta 51), pack-reused 0
Receiving objects: 100% (191/191), 710.58 KiB | 12.69 MiB/s, done.
Resolving deltas: 100% (91/91), done.
(myenv) kabadayi19616@cloudshell:~ (cloudhmv)$
```

download rough.zip to your directory

```
(myenv) kabadayi19616@cloudshell:~/final_project (cloudhmv)$ wget --load-cookies /tmp/cookies.txt "https://docs.google.com/uc?export=download&confirm=$(wget --quiet --save-cookies /tmp/cookies.txt --keep-session-cookies --no-check-certificate 'https://drive.google.com/file/d/1RxfZOYyNvzvCf37_vABfJMkohAsEZKtH/' -O- | sed -rn 's/.confirm=([0-9A-Za-z_]+)/.\/\1\n/p')&id=1RxfZOYyNvzvCf37_vABfJMkohAsEZKtH" -O rough.zip && rm -rf /tmp/cookies.txt
wget: unrecognized option '--savecookies'
Usage: wget [OPTION]... [URL]...

Try 'wget --help' for more options.
Cannot open cookies file '/tmp/cookies.txt': No such file or directory
--2022-04-09 21:29:17-- https://docs.google.com/uc?export=download&confirm=&id=1RxfZOYyNvzvCf37_vABfJMkohAsEZKtH
Resolving docs.google.com (docs.google.com)... 74.125.142.138, 74.125.142.100, 74.125.142.101, ...
Connecting to docs.google.com (docs.google.com)|74.125.142.138|:443... connected.
HTTP request sent, awaiting response... 303 See Other
Location: https://doc-14-a0-docs.googleusercontent.com/docs/securesc/ha0re937gcuc717deffksulhg5h7mblpl/vmkgo7lm87oqub2n10va548thks09gmg/1649539725000/09591049636102722091/*
/1RxfZOYyNvzvCf37_vABfJMkohAsEZKtH?e=download [following]
Warning: wildcards not supported in HTTP.
```

Install libxml-parser-perl, it is essential for installing ROUGE-1.5.5

```
Initiating: RELEASE-1.5.5/ROUGE-1.5.5.pl
(myenv) kabadayi19616@cloudshell:~/final_project (cloudhmv)$ sudo apt-get install libxml-parser-perl
*****
You are running apt-get inside of Cloud Shell. Note that your Cloud Shell
machine is ephemeral and no system-wide change will persist beyond session end.

To suppress this warning, create an empty ~/.cloudshell/no-apt-get-warning file.
The command will automatically proceed in 5 seconds or on any key.

Visit https://cloud.google.com/shell/help for more information.
```

sudo cpan install XML::Parser::PerlSAX

```
(myenv) kabadayi19616@cloudshell:~/final_project (cloudhmv)$ sudo cpan install XML::Parser::PerlSAX
Loading internal logger. Log::Log4perl recommended for better logging

CPAN.pm requires configuration, but most of it can be done automatically.
If you answer 'no' below, you will enter an interactive dialog for each
configuration option instead.

Would you like to configure as much as possible automatically? [yes]
```

sudo cpan install XML::RegExp

```
(myenv) kabadayi19616@cloudshell:~/final_project (cloudhmv)$ sudo cpan install XML::RegExp
Loading internal logger. Log::Log4perl recommended for better logging
Reading '/root/.cpan/Metadata'
  Database was generated on Sat, 09 Apr 2022 20:55:45 GMT
Running install for module 'XML::RegExp'
Fetching with LWP:
http://www.cpan.org/authors/id/T/TJ/TJMATHER/XML-RegExp-0.04.tar.gz
Fetching with LWP:
http://www.cpan.org/authors/id/T/TJ/TJMATHER/CHECKSUMS
Checksum for /root/.cpan/sources/authors/id/T/TJ/TJMATHER/XML-RegExp-0.04.tar.gz ok
```

sudo cpan install XML::DOM

```
(myenv) kabadayi19616@cloudshell:~/final_project (cloudhmv)$ sudo cpan install XML::DOM
Loading internal logger. Log::Log4perl recommended for better logging
Reading '/root/.cpan/Metadata'
  Database was generated on Sat, 09 Apr 2022 20:55:45 GMT
Running install for module 'XML::DOM'
Fetching with LWP:
http://www.cpan.org/authors/id/T/TJ/TJMATHER/XML-DOM-1.46.tar.gz
Checksum for /root/.cpan/sources/authors/id/T/TJ/TJMATHER/XML-DOM-1.46.tar.gz ok
'YAML' not installed, will not store persistent state
```

If this runs, rouge is installed correctly

```
(myenv) kabadayi19616@cloudshell:~/final_project/RELEASE-1.5.5 (cloudhmv)$ ./runROUGE-test.pl
../ROUGE-1.5.5.pl -e ../data -c 95 -2 -1 -U -r 1000 -n 4 -w 1.2 -a ROUGE-test.xml > ../sample-output/ROUGE-test-c95-2-1-U-r1000-n4-w1.2-a.out
../ROUGE-1.5.5.pl -e ../data -c 95 -2 -1 -U -r 1000 -n 4 -w 1.2 -a -m ROUGE-test.xml > ../sample-output/ROUGE-test-c95-2-1-U-r1000-n4-w1.2-a-m.out
../ROUGE-1.5.5.pl -e ../data -c 95 -2 -1 -U -r 1000 -n 4 -w 1.2 -a -m -s ROUGE-test.xml > ../sample-output/ROUGE-test-c95-2-1-U-r1000-n4-w1.2-a-m-s.out
../ROUGE-1.5.5.pl -e ../data -c 95 -2 -1 -U -r 1000 -n 4 -w 1.2 -1 10 -a ROUGE-test.xml > ../sample-output/ROUGE-test-c95-2-1-U-r1000-n4-w1.2-l10-a.out
../ROUGE-1.5.5.pl -e ../data -c 95 -2 -1 -U -r 1000 -n 4 -w 1.2 -1 10 -a -m ROUGE-test.xml > ../sample-output/ROUGE-test-c95-2-1-U-r1000-n4-w1.2-l10-a-m.out
../ROUGE-1.5.5.pl -e ../data -c 95 -2 -1 -U -r 1000 -n 4 -w 1.2 -1 10 -a -m -s ROUGE-test.xml > ../sample-output/ROUGE-test-c95-2-1-U-r1000-n4-w1.2-l10-a-m-s.out
../ROUGE-1.5.5.pl -e ../data -c 95 -2 -1 -U -r 1000 -n 4 -w 1.2 -b 75 -a ROUGE-test.xml > ../sample-output/ROUGE-test-c95-2-1-U-r1000-n4-w1.2-b75-a.out
```

Installing pyrouge:

```
(myenv) kabadayi19616@cloudshell:~/final_project/RELEASE-1.5.5 (cloudhmv)$ git clone https://github.com/bheinzerling/pyrouge.git
Cloning into 'pyrouge'...
remote: Enumerating objects: 551, done.
remote: Total 551 (delta 0), reused 0 (delta 0), pack-reused 551
Receiving objects: 100% (551/551), 123.17 KiB | 6.84 MiB/s, done.
Resolving deltas: 100% (198/198), done.
```

cd pyrouge

```
(myenv) kabadayi19616@cloudshell:~/final_project/RELEASE-1.5.5/pyrouge (cloudhmv)$ pip install -e .
Obtaining file:///home/kabadayi19616/final_project/RELEASE-1.5.5/pyrouge
Installing collected packages: pyrouge
  Running setup.py develop for pyrouge
Successfully installed pyrouge-0.1.3
```

install pytorch 1.1.0 with this command:

conda install pytorch-cpu==1.1.0 torchvision-cpu==0.3.0 cpuonly -c pytorch

```
(myenv) kabadayi19616@cloudshell:~/final_project/RELEASE-1.5.5/pyrouge (cloudhmv)$ conda install pytorch-cpu==1.1.0 torchvision-cpu==0.3.0 cpuonly -c pytorch
Collecting package metadata (current repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible solve.
Solving environment: |
```

Go back to your final project folder and download pretrained-bert-model

```
(myenv) kabadayi19616@cloudshell:~/final_project (cloudhmv)$ wget https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased.tar.gz
--2022-04-09 21:38:28-- https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased.tar.gz
Resolving s3.amazonaws.com (s3.amazonaws.com)... 52.217.134.160
Connecting to s3.amazonaws.com (s3.amazonaws.com)|52.217.134.160|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1248501532 (1.2G) [application/x-tar]
Saving to: 'bert-large-uncased.tar.gz'

bert-large-uncased.tar.gz          4%[==>] 50.43M 28.9MB/s
```

Change the path in BertParent.py in summarizer folder self.model = BertModel.from_pretrained('YOUR_PROJECT_Directory/bert-largeuncased.tar.gz')

```
(myenv) kabadayi19616@cloudshell:~/final_project/summarizer (cloudhmv)$ vim BertParent.py
(myenv) kabadayi19616@cloudshell:~/final_project/summarizer (cloudhmv)$ pip3 install flask
Collecting flask
  Downloading Flask-2.0.3-py3-none-any.whl (95 kB)
    |#####| 95 kB 3.1 MB/s
Collecting itsdangerous>=2.0
  Downloading itsdangerous-2.0.1-py3-none-any.whl (18 kB)
Collecting Jinja2>=3.0
  Downloading Jinja2-3.0.3-py3-none-any.whl (133 kB)
    |#####| 133 kB 46.8 MB/s
Collecting click>=7.1.2
  Downloading click-8.0.4-py3-none-any.whl (97 kB)
    |#####| 97 kB 7.0 MB/s
Collecting Werkzeug>=2.0
  Downloading Werkzeug-2.0.3-py3-none-any.whl (289 kB)
    |#####| 289 kB 34.4 MB/s
Collecting importlib-metadata
  Downloading importlib_metadata-4.8.3-py3-none-any.whl (17 kB)
```

Install all the following packages

pip3 install flask

pip3 install pandas

pip3 install sklearn

pip3 install nltk

pip3 install gensim==3.8.3

pip3 install pytorch-pretrained-bert

pip3 install matplotlib==3.0.0

Download punkt package with nltk

```
(myenv) kabadayi19616@cloudshell:~/final_project (cloudhmv)$ python3
Python 3.6.13 [Anaconda, Inc.] (default, Jun 4 2021, 14:25:59)
[GCC 7.5.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import nltk
>>> nltk.download('punkt')
[nltk_data] Downloading package punkt to
[nltk_data]   /home/kabadayi19616/nltk_data...
[nltk_data]   Unzipping tokenizers/punkt.zip.
True
>>> █
```

Use Web Preview and change the port number to 5000

Please paste the contents that you want to summarize:

Batman's origin story features him swearing vengeance against criminals after witnessing the murder of his parents Thomas and Martha, a vendetta tempered with the ideal of justice. He trains himself physically and intellectually, crafts a bat-inspired persona, and monitors the Gotham streets at night.

- ☒ Add To Instructor
☐ Add To Student

20%

submit

Grade Students

Reset

Potential Summary:

Batman's origin story features him swearing vengeance against criminals after witnessing the murder of his parents Thomas and Martha, a vendetta tempered with the ideal of justice.

Total Time cost:40.21s

it runs well.