Signature Project: Automated Essay Scoring System

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Create cluster on GKE

gcloud container clusters create kubia
 --num-nodes=1 --machine-type=e2-micro
 --region=us-west1

Note: Your Pod address range (`--cluster-ipv4-cidr`) of Creating cluster kubia in us-west1-a... Cluster is become at the container.googleapis.com/v1/projects. To inspect the contents of your cluster, go to: https://kubeconfig entry generated for kubia.

NAME: kubia

LOCATION: us-west1-a

MASTER VERSION: 1.21.6-gke.1503

MASTER_IP: 35.233.215.122 MACHINE TYPE: e2-micro

NODE VERSION: 1.21.6-gke.1503

NUM_NODES: 1 STATUS: RUNNING

mazokuloncz@cloudshell:~ (caramel-limiter-339410)\$

Connect to cluster

Status	Name ↑	Location	Number of nodes	Total vCPUs	Total memory
	kubia	us-west1-a	1	2	1 GB

gcloud container clusters get-credentials kubia
 --zone us-west1-a --project
 caramel-limiter-339410

Fetching cluster endpoint and auth data. kubeconfig entry generated for kubia.

Download miniconda

Miniconda3 will now be installed into this location: /home/mazokuloncz/miniconda3

- Press ENTER to confirm the location
- Press CTRL-C to abort the installation
- Or specify a different location below

[/home/mazokuloncz/miniconda3] >>>

Setup python environment

- export PATH="/home/mazokucz/miniconda3/bin:\$PATH"
- conda create -n pyenv python=3.6
- conda activate pyenv

```
To initialize your shell, run

$ conda init <SHELL_NAME>

Currently supported shells are:

- bash
- fish
- tcsh
- xonsh
- zsh
- powershell
```

Import git project

• git clone https://github.com/Quan25/flask-summary.git

```
mazokuloncz@cloudshell:~ (caramel-limiter-339410)$ git clone https://github.com/Quan25/flask-summary.git Cloning into 'flask-summary'...
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 | 8.07 MiB/s, done.
Resolving deltas: 100% (91/91), done.
```

Download and Unzip rough.zip

wget --load-cookies /tmp/cookies.txt
 "https://docs.google.com/uc?export=download&confirm=\$(wget --quiet --savecookies /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

```
Archive: rough.zip
    creating: RELEASE-1.5.5/
    creating: RELEASE-1.5.5/data/
    creating: RELEASE-1.5.5/data/WordNet-2.0-Exceptions/
    inflating: RELEASE-1.5.5/data/WordNet-2.0-Exceptions/adj.exc
    inflating: RELEASE-1.5.5/data/WordNet-2.0-Exceptions/verb.exc
    inflating: RELEASE-1.5.5/data/WordNet-2.0-Exceptions/dav.exc
    inflating: RELEASE-1.5.5/data/WordNet-2.0-Exceptions/WordNet-2.0.exc.db
    inflating: RELEASE-1.5.5/data/WordNet-2.0-Exceptions/buildExeptionDB.pl
    inflating: RELEASE-1.5.5/data/WordNet-2.0-Exceptions/noun.exc
    inflating: RELEASE-1.5.5/data/WordNet-2.0.exc.db
    inflating: RELEASE-1.5.5/data/WordNet-2.0.exc.db
```

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

- sudo apt-get install libxml-parser-perl
- sudo cpan install XML::Parser::PerlSAX
- sudo cpan install XML::RegExp
- Sudo cpan install XML::DOM

```
Loading internal logger. Log::Log4perl recommended for better logging
Reading '/root/.cpan/Metadata'

Database was generated on Tue, 05 Apr 2022 18:17:03 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
Configuring T/TJ/TJMATHER/XML-DOM-1.46.tar.gz with Makefile.PL
Checking if your kit is complete...
Looks good
```

Install pyrouge

- git clone https://github.com/bheinzerling/pyrouge.git
- pip install -e .
- conda install pytorch-cpu==1.1.0 torchvision-cpu==0.3.0 cpuonly -c pytorch

```
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 | 4.93 MiB/s, done.
Resolving deltas: 100% (198/198), done.
```

Download pretrained-bert-model and install packages

```
wget <a href="https://s3.amazonaws.com/models.huggingface.co/bert/bert-largeuncased.tar.gz">https://s3.amazonaws.com/models.huggingface.co/bert/bert-largeuncased.tar.gz</a>
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
```

Run app.py

```
* Serving Flask app 'app' (lazy loading)

* Environment: production

**MEDITION: This is a development server. Be not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: on

WARNING: werkzeug: * Running on all addresses.

WARNING: This is a development server. Do not use it in a production deployment.

INFO:werkzeug: * Running on http://172.17.0.4:5000/ (Press CTRL+C to quit)

INFO:werkzeug: * Restarting with stat

WARNING:werkzeug: * Debugger is active!

INFO:werkzeug: * Debugger PIN: 547-974-187
```

Use Web Preview and change the port number to 5000

Russia has asked China for military assistance in Ukraine, including drones, a senior US official said Sunday.

CNN has reached out to the Russian embassy in the US for comment but did not receive an immediate response.

Add To Instructor
Add To Student

20%

submit

Grade Students

Reset

Change Preview Port



Potential Summary:

Russia has asked China for military assistance in Ukraine, including drones, a senior US official said Sunday. Chinese embassy spokesperson Liu Pengyu told CNN Sunday he had not heard of Russia's request. China has put forward an initiative for responding to the humanitarian situation in Ukraine. "Our

References

 https://hc.labnet.sfbu.edu/~henry/npu/classes/kubernetes_in_action/first_step/slide/zizhuo_huang_ final_project.html