**DEPLOYMENT DOCUMENTATION**

1. **GOOGLE DEPLOYMENTS**

The required files for the deployment on google platform are:

app.yaml (contains the python runtime used for the project → for this project we used python39)

Main.py its the normally called app.py but for the case of google cloud deployment, main.py is used.

Thr remaining files in my local directory

* **Setup your project on Google Cloud**

Go to Google cloud website and do the necessary signing ups/settings on the webpage, which might include inputing your name and also company name, email address and also credit card details, you would be asked also to send some documents that would be needed.

A token would be taken form your account (1-10INR) for activation and you would be given at least **$400** **free worth of credit** for your deployment on the google cloud server.

Finally you then have to click on creating a new project in the google cloud home page and i named mine Resume\_Ranker as the project inclines.

* **Install Google Cloud SDK**

This pakage has to be installed on your local computer in other for deployment to take place, it enables deployment from your local ot github to your google environment.

You would search for the SDK file online to get it installed, installation would take up to 10mins.

* **Google Cloud SDK Command Prompt**

The next step is for you to open the pakage above on your local pc, then locate the directory where the codes to be deployed are.

I used >> *cd C:\Users\MikeTheScientist\Desktop\ArtificialNeurons\resume\_ranker* ,

After the folder was located, i then inputed >> *gcloud init*

Then you would be given an option to pick a configuration to use:

*Press 2*

Then *press 1*, after which your system has passed the deployment test, you would then have to choose another option either to set up a new gmail or use the recent gmial, *1 or 2* , finally you would be asked to select a project name you created earlier, i created project name **Resume\_Ranker** for this project in which i selected.

Finally all thats left is >> *gcloud app deploy app.yaml –project Resume\_Ranker*

After that you have to select the region you want to use your app engine application, you would have to select your location then contine the deployment process with ***yes.***

Now you uploading is starting, it would take few minutes depends on you system requirements

Now to get the **target url:** it is foung in the running script in which you have to copy it and run any chrome or any browser of your choice.

**You would be charged from your credit as long as the site is been used.**

1. **AWS EC2 DEPLOYMENTS**

The neccessary pre-requiste for this deployment is your embedded flask app in your main.py and your other codes in the code folder

* **Setup your AWS EC2 account**

Go to **AWS consol login**  and create an account if you dont have one, you have to set up your card details in other to create an AWS account for the deployment, it might take about 24 hours max to get activated but sometimes it take 15 mins to get activated also, it deends but i dont know the reason for the activation delay.

* **AWS EC2 account**

After logging in, you have to go the the **console home** and search for EC2 on the search icon, then click on the **dashboard,** now you have created a new EC2 dashboard deployment. Then click on **instances,** then on the right side of your screen you would see something like an orange like button to **launch instances** after that it would provide a region to choose **AMI**  then on the search icon search for windows, then you would pick **Microsoft Windows Server 20xx Base with container** then select any of the micro of your choice, then launch after that it would create a new instance, when ever you are creating instance i would suggest that you **create a new pair of key** and give it a name of your choice then **download key pair. Finally just lauch instance**. Then place the downloaded file on your code folder to be deployed.

* **Download the required tools and purposes for it all**

Download the necessary files from your browser.

1. Download putty
2. Download puttygen : its used to generate a key
3. winscp

* **Requird tools usage**

After downloadind ***puttygen*** on your PC, you then have to open it and a new putty key generator page would pop up, after which you have to click on **Load** then locate the previously downloaded key in the code folder then you **save private key(name with what suits you)**

After that you load the ***winscp*** also on your pc then login (**host name**: it can be found on your aws page, instance>>click on actions>>view details>>networking>>copy the host name>>public ipv4 DNS, it has both numbers and letters.

Paste it on the **Host name,**  file protocol would be **SFTP** , port number **22,**  username **windows,** then click on advance>>authentication>>upload private key file(remeber the previous private key file you saved) paste it>>login.

* **Final Approach**

After following the above steps above, you have to copy all the necessary files needed to the aws windows page that would be created.

Now open ***putty*** which was already downloaded, put your IP address, then port then save session should be any name>> Go to SSH and load the private key file>>go back to session>>save>>open>>yes

Login as window

Install the python pip manager if not available in the terminal.

Installation is going on……

After that

**Pip install -r requirements.txt>>**all dependecies are installed

Now run **python main-app.py**

**Now check if the application is running fine.**

* **Security Access**

**Network….>>security and access>>**inbound rule>>type = any>>source = anywhere ipv4>> create

Now go to **Network interfaces>>**actions>>Security groups>>used the most recent security group>> save.