**Term Project: Design an App in Python using a Major Framework**

* **Bot working on:**

Telegram - For running and using the bot.

GitHub - For deploying the source code on it.

Heroku - For hosting the bo.

Openai - For artificial intelligence.

* **Dependencies & Their Versions**

openai==0.20.0

openpyxl==3.0.10

packaging==21.3

pandas==1.4.2

pandas-stubs==1.4.2.220626

Pillow==9.2.0

pyparsing==3.0.9

python-dateutil==2.8.2

python-telegram-bot==13.13

pytz==2022.1

pytz-deprecation-shim==0.1.0.post0

requests==2.28.1

six==1.16.0

tornado==6.1

tqdm==4.64.0

typing\_extensions==4.3.0

tzdata==2022.1

tzlocal==4.2

urllib3==1.26.9

APScheduler==3.6.3

cachetools==4.2.2

certifi==2022.6.15

charset-normalizer==2.1.0

cycler==0.11.0

et-xmlfile==1.1.0

fonttools==4.33.3

idna==3.3

kiwisolver==1.4.3

matplotlib==3.5.2

numpy==1.23.0

* **Steps to follow**

1. Create a bot using the bot father from Telegram.
2. write code in Code Editor by using python package Python-telegram-bot.
3. Now go to heroku.com and create an account successfully.
4. Then create a new app.
5. Now deploy your bot on Github.
6. After deploying to Github connect the Github to heroku.
7. Then select our repository and click to Automatic Deploys.
8. Now go to Resources and refresh the site.
9. Now click on the pencil icon and click on confirm.
10. Now go and check your bot.

* **How this application can be deployed in a cloud environment.**

Ans:- So this application is deployed to Heroku which is cloud service platform.

* Describe how you would implement security features for your app in the cloud.

Ans:- To help your Telegram bot be as secure as possible, limit access to only the IPs Telegram is sending updates from or All messages communication with a bot are secured via client-server/server-client encryption. In the Telegram Cloud, this data is also divided among a number of servers and stored there in encrypted form.

* If you need to make your application serverless how it can be done.

Ans: So if we want to make telegram bot serverless we can deploy it on AWS lambda or some other serverless framework and then serverless framework creates the self-contained Python environment including all dependencies .

# **Open Ai API keys**

Your secret API keys are shown below. Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically rotate any API key that we've found has leaked publicly.

**SECRET KEY**

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

**Telegram bot**

Telegram bot - You will find it at ( t.me/Triganbotbot. )

Use this token to access the HTTP API:

5467924203:AAHr4pl4oGGmqzDQ89Q86qTHGJ5CE26HwZM

Keep your token secure and store it safely, it can be used by anyone to control your bot.