DIAMOND PRICE PREDICTION



NAME: ALMAS BANU

INNOMATICS RESEARCH LABS

Streamlit app with Diamond Price Prediction model.

- Price prediction is done by using KNN model.
- User enters the details of Diamond app replies with the price.
- Streamlit is used for creating the app.
- Heroku is used for deployment.

Heroku deployment steps

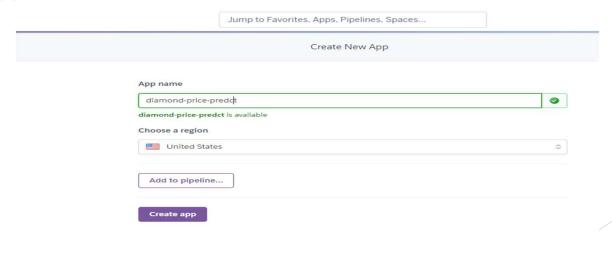
- Files required
- app.py (.py file and if extra pages are there then pages folder containing extra pages .py files)
- requirements.txt
- procfile
- setup.sh

STEP 1:

- Create a heroku account and login to heroku.com
- Create new app using new button



Give the app name.



STEP 2:

Login to heroku using CLI heroku login.

```
C:\Users\admin>heroku login -i
heroku: Enter your login credentials
Email: almas.banu082002@gmail.com
Password: ***********
Logged in as almas.banu082002@gmail.com
C:\Users\admin>
```

- Change directory to project folder.
- git init
- git status



STEP 3:

- git add .
- git commit -m "my first commit" (Commit)
- git status

```
C:\Users\admin\Desktop\internship_flask_sessions\PriceDiamond>git add .
warning: in the working copy of 'dataset/diamonds.csv', LF will be replaced by CRLF the next time Git
warning: in the working copy of 'diamond_pred.ipynb', LF will be replaced by CRLF the next time Git to
warning: in the working copy of 'setup.sh', LF will be replaced by CRLF the next time Git touches it
C:\Users\admin\Desktop\internship flask sessions\PriceDiamond>git commit -m "my first commit"
[master (root-commit) affdf95] my first commit
14 files changed, 57936 insertions(+)
create mode 100644 Procfile
create mode 100644 app.py
create mode 100644 dataset/diamonds.csv
create mode 100644 diamond pred.ipynb
create mode 100644 models/dt model.pkl
create mode 100644 models/knn model.pkl
create mode 100644 models/label encoder.pkl
create mode 100644 models/lr model.pkl
create mode 100644 models/rf model.pkl
create mode 100644 models/scaler.pkl
create mode 100644 pages/diamond.py
create mode 100644 pages/predict.py
create mode 100644 requirements.txt
create mode 100644 setup.sh
C:\Users\admin\Desktop\internship_flask_sessions\PriceDiamond>git status
On branch master
nothing to commit, working tree clean
```



STEP 4:

- heroku git:remote -a appname (my case it is diamond-price-predct)
- git push heroku master

remote: Compressing source files... done.

```
C:\Windows\System32\cmd.exe
C:\Users\admin\Desktop\internship_flask_sessions\PriceDiamond>heroku git:remote -a diamond-price-predct set git remote heroku to https://git.heroku.com/diamond-price-predct.git

C:\Users\admin\Desktop\internship_flask_sessions\PriceDiamond>git push heroku master
Enumerating objects: 19, done.

Counting objects: 100% (19/19), done.

Delta compression using up to 4 threads
Compressing objects: 100% (17/17), done.

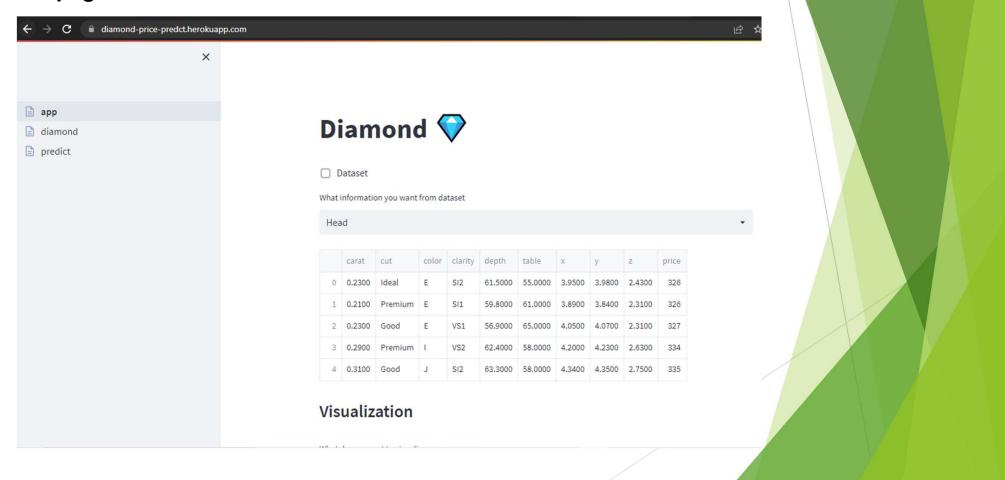
Writing objects: 100% (19/19), 55.49 MiB | 252.00 KiB/s, done.

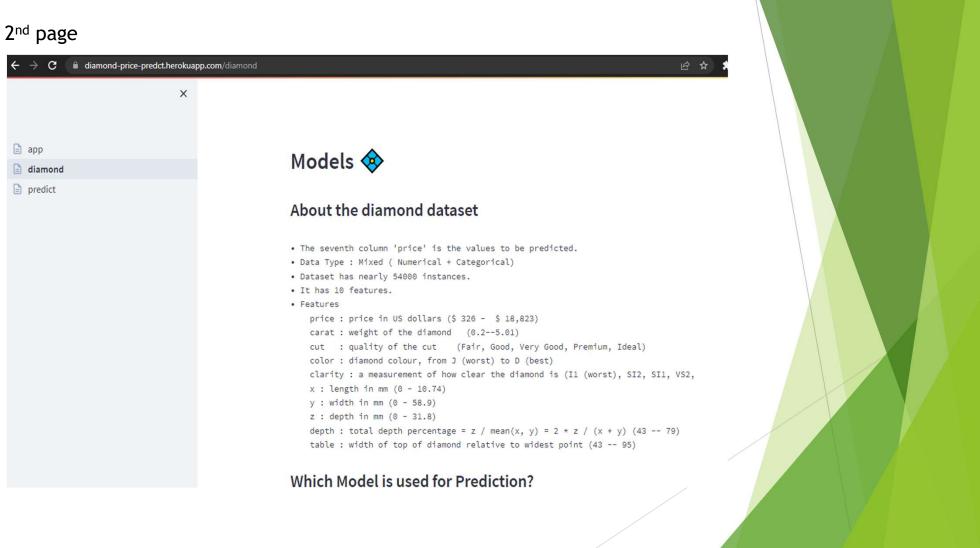
Total 19 (delta 0), reused 0 (delta 0), pack-reused 0
```

```
remote: Released v3
remote: https://diamond-price-predct.herokuapp.com/ deployed to Heroku
remote:
remote: Starting November 28th, 2022, free Heroku Dynos, free Heroku Postgres, and free Heroku Data for Redis® will no longer be available.
remote:
remote: If you have apps using any of these resources, you must upgrade to paid plans by this date to ensure your apps continue to run and to retain your data. For students, we will announce a new program by the end of September. Learn more at https://blog.heroku.com/next-chapter
remote: Verifying deploy.... done.
To https://git.heroku.com/diamond-price-predct.git
* [new branch] master -> master

C:\Users\admin\Desktop\internship_flask_sessions\PriceDiamond>
```

App Link 1st page





3rd page

