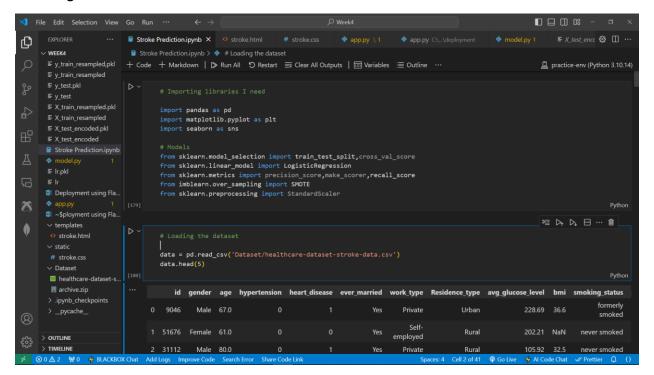
CLOUD AND API DEPLOYMENT

NAME: VIVIAN KERUBO MOSOMI

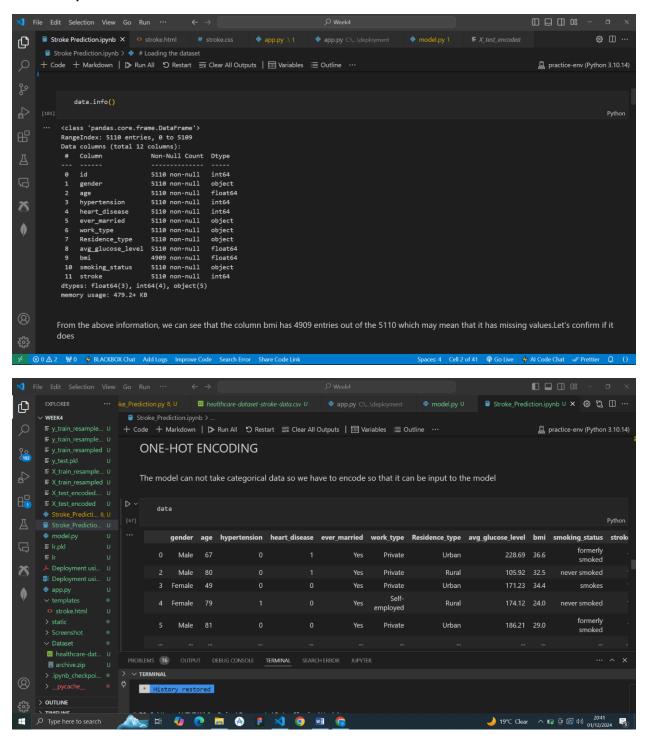
BATCH CODE: LISUM39

SUBMISSION DATE: 01/12/24

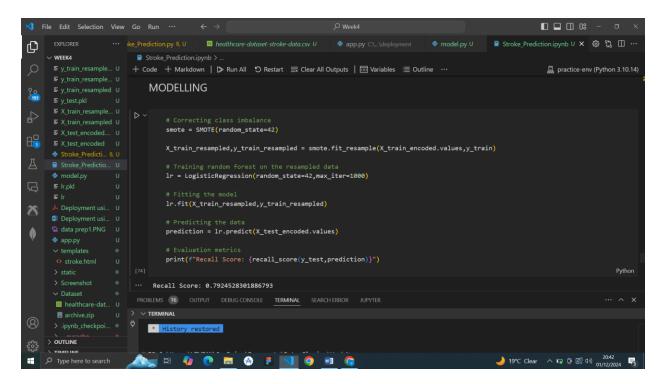
1.Loading the Data



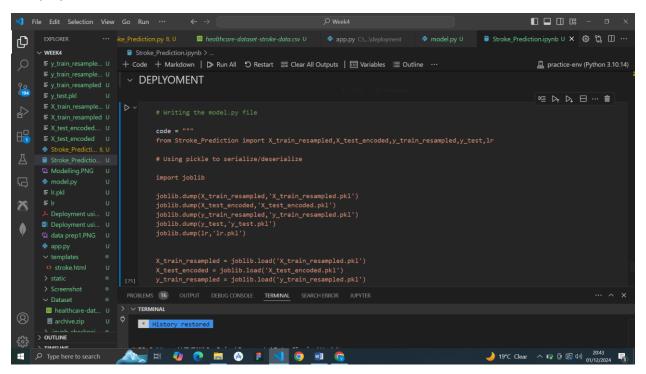
2.Data Preparation



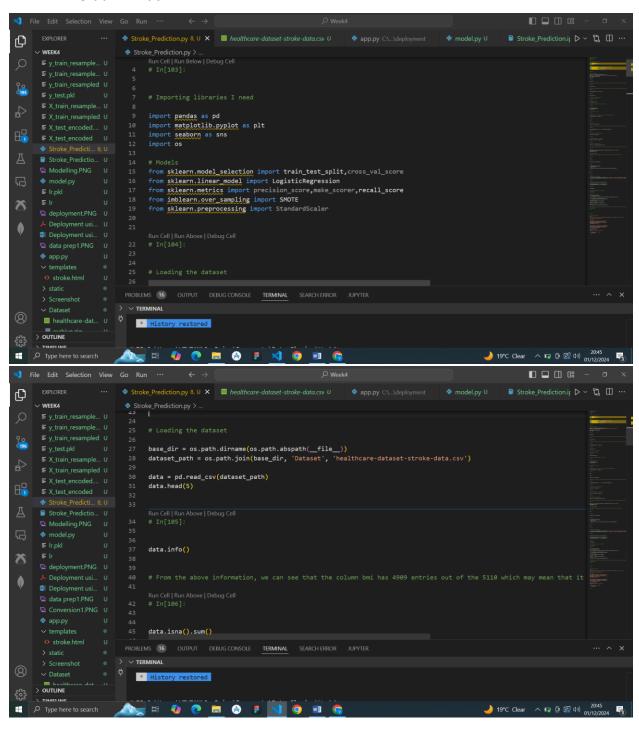
3. Modelling



4.Deployment



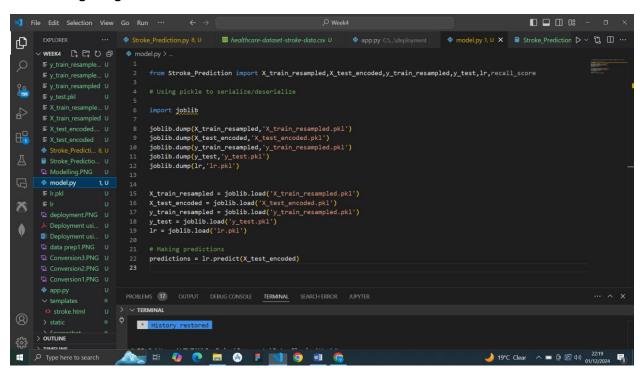
5. Converting ipynb to .py file



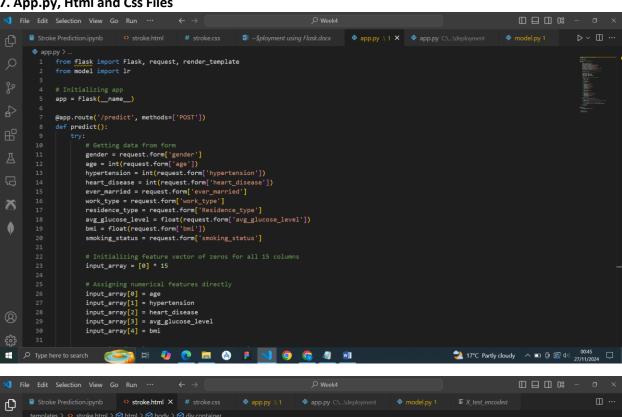
```
\cdots 🌳 Stroke_Prediction.py 8, U 🗴 🗓 healthcare-dataset-stroke-data.csv U 🗼 app.py C\...\deployment 🐡 model.py U 📦 Stroke_Prediction.i; D 🗸 🖏 🔲 …
0
     ∨ WEEK4 🖺 🗗 🖰 🗗 🗸 Stroke_Prediction.py > ..
                              # Correcting class imbalance
smote = SMOTE(random_state=42)
                              215 X_train_resampled,y_train_resampled = smote.fit_resample(X_train_encoded.values,y_train)
                              # Training random forest on the resampled data

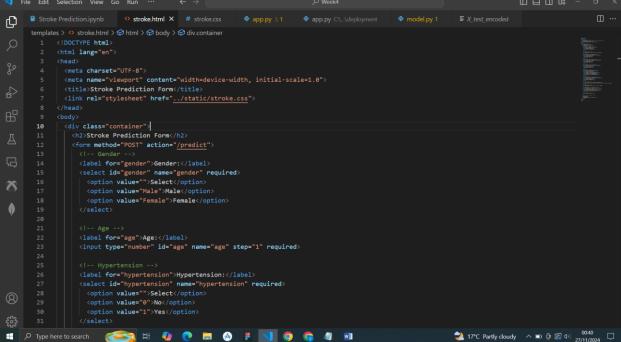
1 r = LogisticRegression(random_state=42,max_iter=1000)
                              220 # Fitting the model
221 lr.fit(X_train_resampled,y_train_resampled)
                              # Predicting the data
prediction = lr.predict(X_test_encoded.values)
                              # Evaluation metrics
print(f"Recall Score: {recall_score(y_test,prediction)}")
0
      Conversion2.PNG U
                                    # #### DEPLYOMENT
                              PROBLEMS (16) OUTPUT DEBUG CONSOLE TERMINAL SEARCH ERROR JUPYTER
                            > v terminal
                                 * History restored
     > OUTLINE
                               👠 ਸ਼ੀ 🥠 🥷 🔚 🙆 🗜 🚺 🧿 👊 🌀
                                                                                                                                      🌙 19°C Clear 🗠 🖙 📴 🖪 ባ፥) 20:47
- 13°C Clear
```

6. Predicting using serialized files



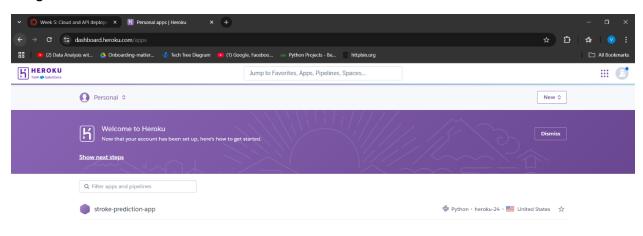
7. App.py, Html and Css Files





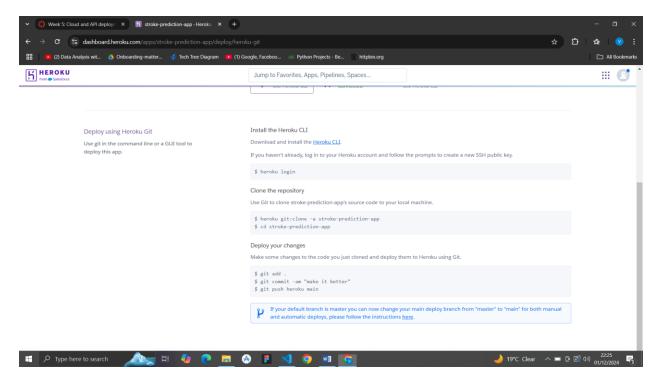
```
▼ File Edit Selection View Go Run …
       Stroke Prediction.ipynb ♦ stroke.html # stroke.css X ♦ app.py \ 1 ♦ app.py \ 2...\deployment ♦ model.py 1 ► X_test_encoded
       static > # stroke.css > 4 .container
          1 body {
                pody {
    font-family: Arial, sans-serif;
    background-color: ■ bisque;
    display: flex;
    justify-content: center;
                align-items: center;
height: 100vh;
              .container {
   background-color: ■white;
   padding: 50px;
   border-radius: 8px;
                box-shadow: 0 4px 8px □rgba(0, 0, 0, 0.1);
width: 300px;
margin-top: 150px;
28
•
                margin-bottom: 20px;
              label {
               display: block;
margin-bottom: 5px;
              input, select {
  width: 100%;
```

8.Login To Heroku



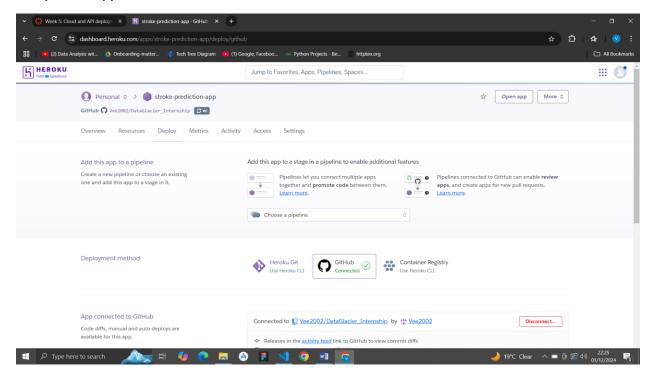


9. Connect to the app created on Heroku

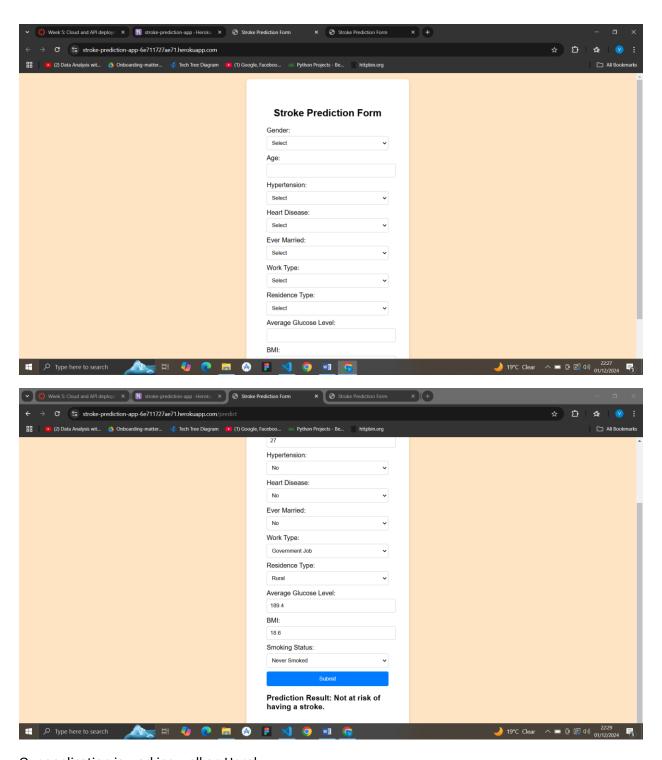


Install the Heroku CLI, and use git bash or command prompt to run the Heroku commands or connect using GitHub

10. Open the app



11.Load the app and fill in the form



Our application is working well on Heroku.