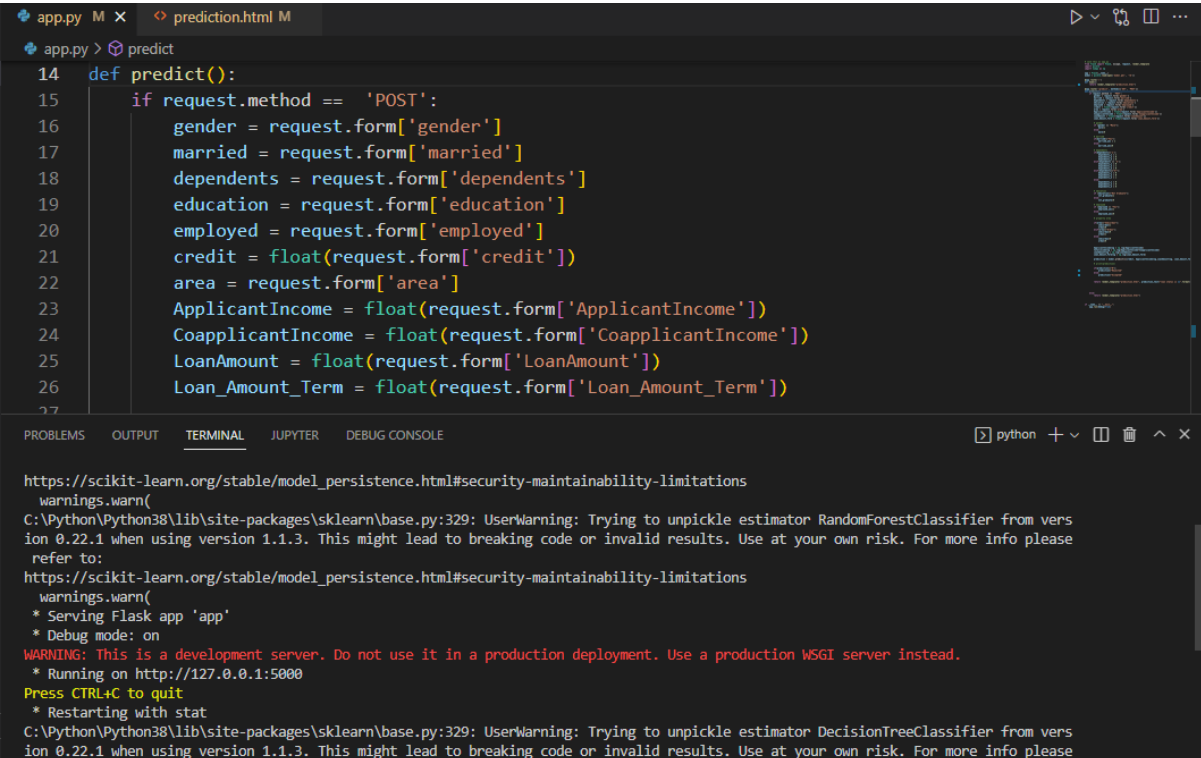


# Smart Lender - Applicant Credibility Prediction for Loan Approval

Team ID : PNT2022TMID19191

## Run The Application



The screenshot shows a code editor with two files: `app.py` and `prediction.html`. The `app.py` file contains a `predict` function that processes form data and makes predictions. The terminal output shows the application running on `http://127.0.0.1:5000` with several warnings from scikit-learn.

```
app.py M X prediction.html M
app.py > predict
14 def predict():
15     if request.method == 'POST':
16         gender = request.form['gender']
17         married = request.form['married']
18         dependents = request.form['dependents']
19         education = request.form['education']
20         employed = request.form['employed']
21         credit = float(request.form['credit'])
22         area = request.form['area']
23         ApplicantIncome = float(request.form['ApplicantIncome'])
24         CoapplicantIncome = float(request.form['CoapplicantIncome'])
25         LoanAmount = float(request.form['LoanAmount'])
26         Loan_Amount_Term = float(request.form['Loan_Amount_Term'])
27

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE
python + - [] ^ x

https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
C:\Python\Python38\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator RandomForestClassifier from vers
ion 0.22.1 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please
refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
C:\Python\Python38\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator DecisionTreeClassifier from vers
ion 0.22.1 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please
```

## Loan Prediction Page:

A screenshot of a web browser displaying a loan prediction application. The browser has three tabs: 'WhatsApp', 'HOME PAGE', and 'prediction'. The address bar shows 'localhost:5000/predict'. The page title is 'LOAN PREDICTION'. The form contains the following fields:

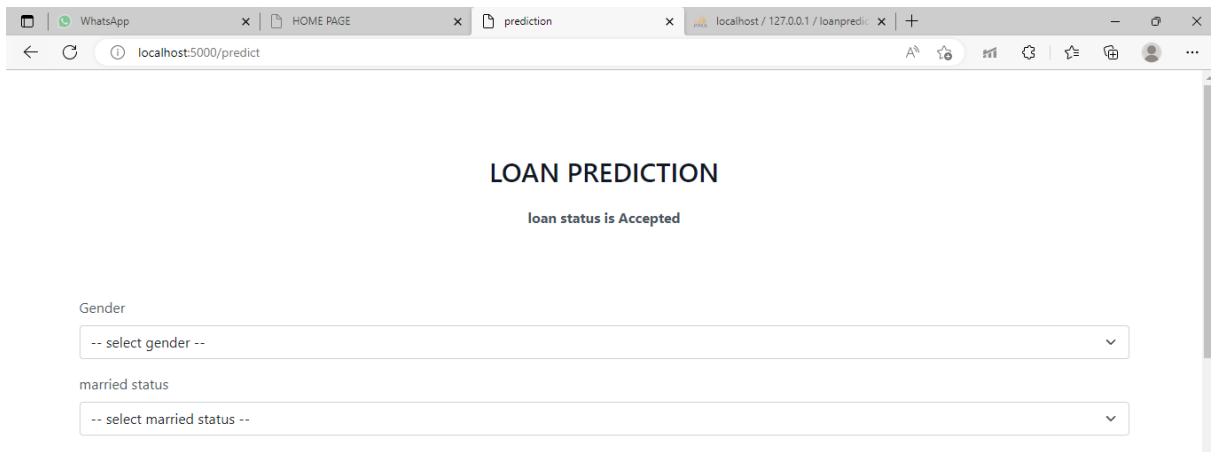
- Gender: Male
- married status: Yes
- Dependents: 0
- Education: Graduate
- Self\_Employed: Yes
- Credit\_History: 1.000000

A screenshot of the same web browser showing the continuation of the loan prediction form. The fields are:

- Self\_Employed: Yes
- Credit\_History: 1.000000
- Property\_Area: Urban
- Enter ApplicantIncome: 3000
- Enter CoapplicantIncome: 0
- Enter LoanAmount: 66
- Enter Loan\_Amount\_Term: 360

At the bottom of the form is a blue button labeled 'Predict'.

**Predicted Result:[Accepted]**



The screenshot shows a web browser window with the address bar displaying 'localhost:5000/predict'. The browser tabs include 'WhatsApp', 'HOME PAGE', 'prediction', and 'localhost / 127.0.0.1 / loanpredic'. The page content features the title 'LOAN PREDICTION' and a message 'loan status is Accepted'. Below this, there are two dropdown menus: 'Gender' with the placeholder text '-- select gender --' and 'married status' with the placeholder text '-- select married status --'. Both dropdowns have a downward arrow icon on the right side.

LOAN PREDICTION

loan status is Accepted

Gender

-- select gender --

married status

-- select married status --