Overview

- ❖ **Introduction to Credit Card Fraud Detection.**

- ❖ **Introduction to Data**

- ❖ **Model Training**

- ❖ **Creating Web App**

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- ❖ **Conclusion**
- ❖ **References**

Introduction to Credit Card Fraud Detection

- Need of the hour.

- Complex

- Technological Limitations

Introduction to the Data

- Dimensionally reduced

- Unbalanced

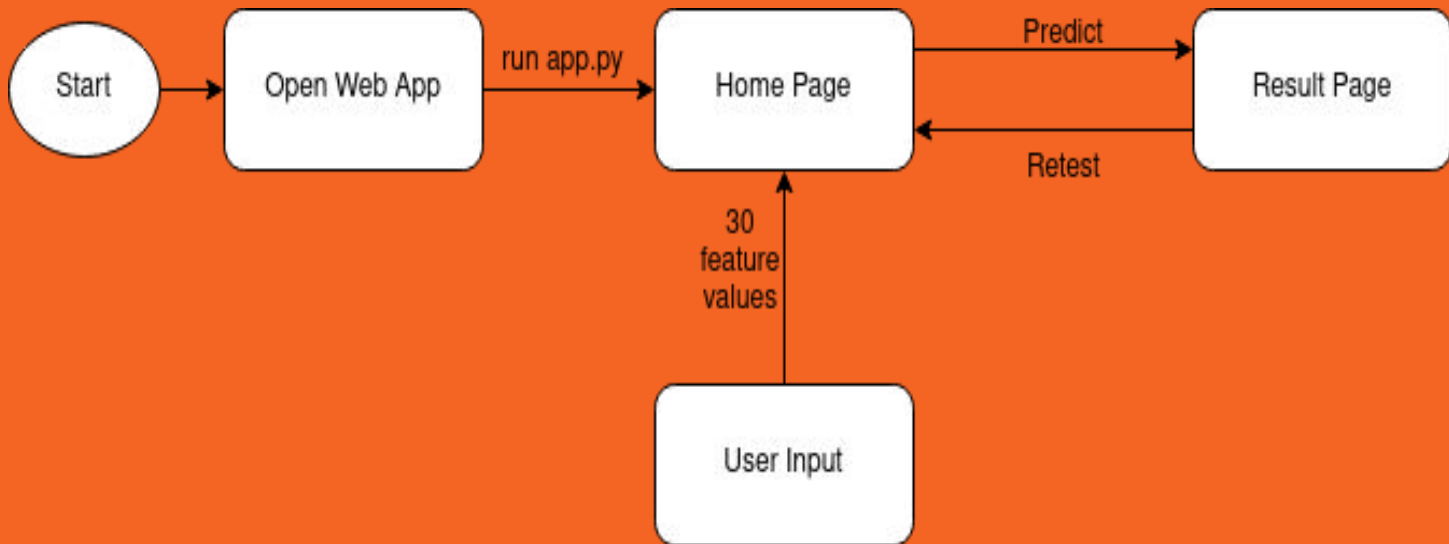| Time	V1	V2	V3	V4
-1.1152878574425795	-19.1397328634111	9.28684735978866	-20.134992104854	7.81867331002574
-1.0375841188797272	-1.51924353075082	2.3084924536764304	-1.50359931953802	2.06410058377601
0.7238059114969032	0.290155157802135	0.0492431315858544	-0.7405236661026908	2.86546277005979
-1.0617586153215035	-4.617461029179861	3.66339525318755598	-5.29744641020372	3.88095965427288
-0.19459331612956565	-1.7567118508364998	3.26657425418237	-4.15338789695403	3.9245256135755495

Valid value Count: 284315
Fraud value Count: 492

Model Training

- Logistic Regression with balanced Class Weight.

- Over Sampling and Under Sampling

- Accuracy: 0.976

- Recall: 0.903

Creating Web App

Credit Card Fraud Detection Web App

Sneak Peek into Our Web App

Credit Card Fraud Detection Rest API

Enter the 30 feature values in the below cell(in order):

Predict

Credit Card Fraud Detection Results

Validation Completed.

According to our model, this transaction is a Fraud transaction.

Retest

Credit Card Fraud Detection Results

Validation Completed.

According to our model, the provided transaction is NOT a Fraud transaction.

Retest

Conclusion

- Credit Card Fraud Detection is a developing technique.

- Machine Learning advances will achieve greater results in future.

Thank You!