


I am Duong Ngoc Thang

a data analyst

"These are some of my projects"

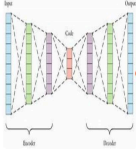
IMPLEMENT MODELS

Input data



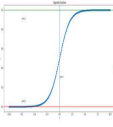
V1, V2, V3, V4, V5, ..., V28
Amount

Processing with Autoencoder




The input data is normalized and fed into the autoencoder for reconstruction. The reconstruction error is calculated for each transaction.

Processing with Logistic Regression



The reconstruction error from the autoencoder is used as input for logistic regression to classify transactions as normal or fraudulent.

Result



NOT FRAUD
FRAUD

Classify transactions.

< Credit Card Fraud Detection />

Prediction: Orange
Confidence: 98.99%

Prediction: Banana
Confidence: 96.90%

Prediction: Banana
Confidence: 41.80%

Prediction: Orange
Confidence: 95.33%

Prediction: Orange
Confidence: 82.81%

Prediction: Apple
Confidence: 99.99%

Prediction: Mixed
Confidence: 94.52%

Prediction: Apple
Confidence: 99.42%

Prediction: Orange
Confidence: 99.26%

Prediction: Banana
Confidence: 99.93%

Prediction: Banana
Confidence: 44.49%

Prediction: Banana
Confidence: 94.70%

Prediction: Apple
Confidence: 96.08%

< Fruit Classification />

RESULT OF MODEL

Recall score: 0.9820
ROC-AUC score: 0.6513

Confusion Matrix

	Predicted 0	Predicted 1
Actual 0	4615	80225
Actual 1	135	7356

< Home Credit Default Risk />

Let's work together...

Linkedin Github

dgngochang1410@gmail.com