CreditCard Fraud Detection Variables

OK

OK

Merchant

Taxi Co

Airport Cafe

Best Doughnuts Co

Best Jewellery Co

Cash at ATM

Cash at ATM

Cash at ATM

Online Movies Co

Food Delivery Co

Amount

2,000,000

20

12

2,000

5,000,000

20,000,000

20

40

Date

20.02.2019

23.02.2019

25.02.2019

27.02.2019

27.02.2019

27.02.2019

27.02.2019

27.02.2019

10,000,000 27.02.2019

Country

IND

GBR

GBR

IND

IND

IND

GBR

Currency

INR

GBP

GBP

INR

INR

INR

GBP

GBP

Method

Magstripe

Chip&Pin

Contactless

E-Commerce

Magstripe

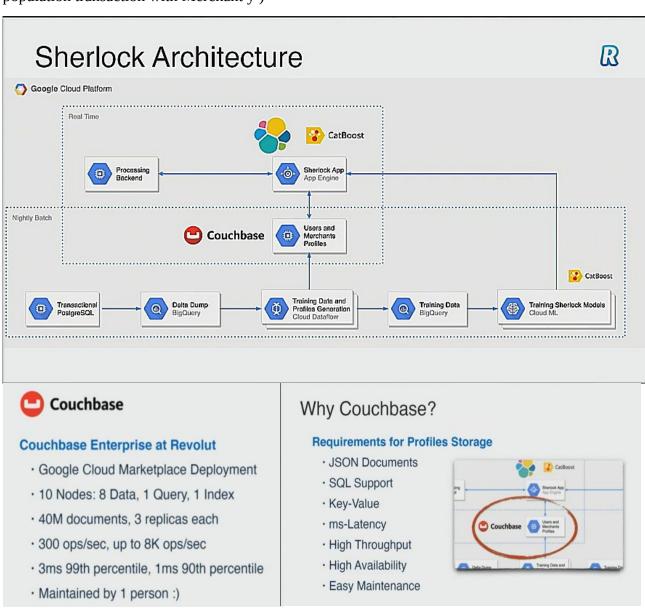
Magstripe

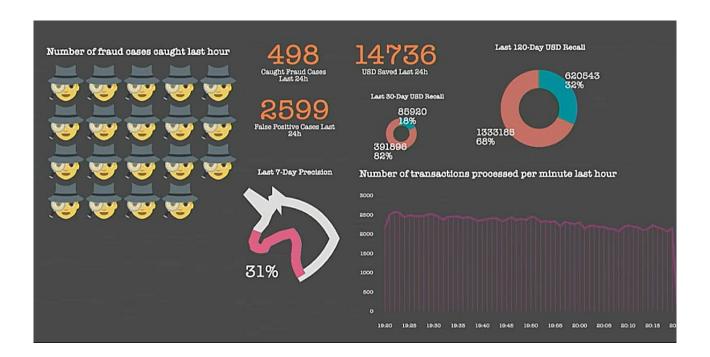
Magstripe

E-Commerce

E-Commerce

- 1. Merchant
- 2. Amount
- 3. Date of transaction
- 4. Country where transaction happened
- 5. Currency (INR or GBP)
- 6. Method of transaction (Magstripe, Chip&Pen, Contactless, E-Commerce)
- 7. Velocity of transaction
- 8. User focused features (based on behavior)
- 9. Merchant focuesed (how much an x transaction with Merchant y is different than average population transaction with Merchant y)





Takeaways:

- Data Quality is important
- Start early building your machine learning models
- Embrace the cloud
- Experiment!

Reference(s):

1. How to build a fully autonomous credit card fraud detection system (Revolut), Big Data London, 2019