

# The Cleptomaniacs

A Branch Division of the Felonius Punks

In cahoots with Cranky coders

# Communication Protocols

- Meetings are held via Zoom or Hangouts
- Secret handshakes and signs have been adopted
- New Batcave in Manhattan has been occupied

Item	Kwala	Jonathan	Phil	Vera
Coding	Python	Python	HTML	SQL
Sections	Machine Learning	Machine Learning	Presentations	Data Base

# Inherent data info

Basic Questions about the data

Curve of # of data transactions

What time of day are transactions happening

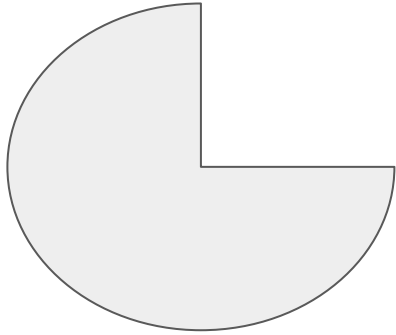
Where?

Look up MCC code dictionary for type of transaction

Look at relationships between

- location and time
- Time and MCC
- State and errors/state and fraud

# Dash board layout

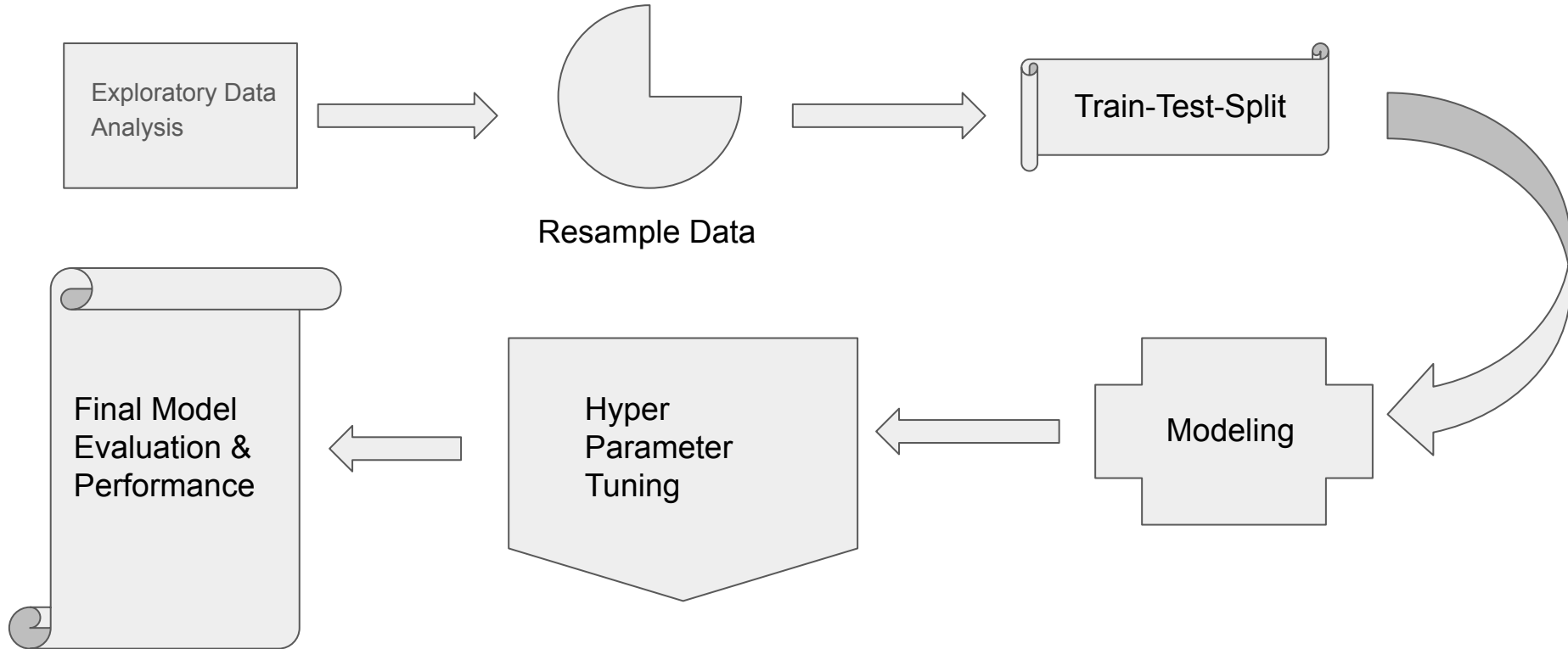


Fraud vs Good transactions



Feature Importance Plots

# Data Management Flow Chart



# Interactive Elements

Card fraud will be determined by the fewest elements we can pare the model to.

- These elements, identifiable as the best indicators of a fraudulent transaction will be open to manipulation on a hosted website.
- The website will have input boxes for the number of elements required to determine fraud. Visitors will be able to input these key elements and determine if their criteria would be seen as fraudulent transition.
- As of this date, the elements have not been identified.