Financial Fraud Detection for Ibotta

Identify fraudulent activity in bank account transactions to <u>exclude</u> fraudsters from its platform to make new programs more effective

Objectives

Ibotta's mission is to make all purchases rewarding via digital coupons. Unfortunately, fraudsters like to take advantage of our platform.

Ibotta wants a model that takes as input one more example accounts and Outputs one or more accounts that are very similar to the supplied accounts.

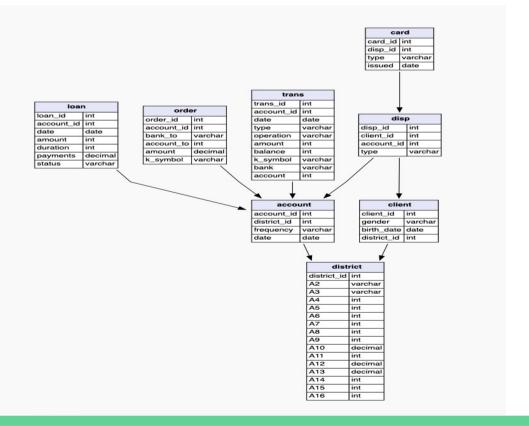
Example

Fruit ID	Shape	Size	Color	Other features	
00001234			Red		
0001235			Orange		
00012376			Red		
0012345			Orange		_

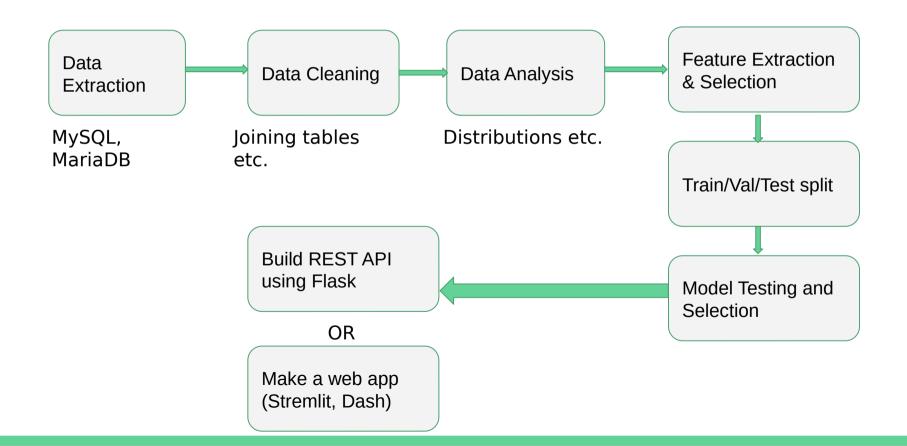
similar fruit

Dataset

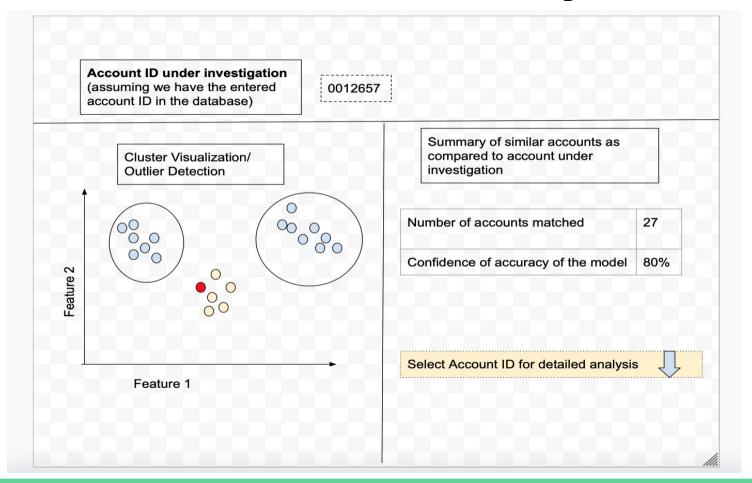
https://relational.fit.cvut.cz/dataset/Financial



Model Pipeline



User Interface for Product Manager



Development Timeline

Task	Start Date	End Date	Duration
Data Extraction	Jul, 26	Jul, 28	0.5 weeks
Data Cleaning	Jul, 29	Aug, 1	0.5 week
Data Analysis	Aug, 2	Aug, 4	0.5 week
Feature Extraction and Selection	Aug, 5	Aug, 12	1 weeks
Train/Test/Val Split	Aug, 13	Aug, 15	0.5 week
Model Testing and Selection	Aug, 16	Aug, 18	0.5 week
RestAPI	Aug, 19	Aug, 26	1 weeks
Web App	Aug, 26	Sep, 2	1 weeks