

A SERIES OF FORTUNATE FRAUD DETECTION

Fraud Detector 101

Home

Score

Dashboard

Fraud Detection : Fraudsters and Phishers and Spammers...Oh, my!

Designing a Predictive Model to Catch E-commerce Bad Guys



Exploring the Data

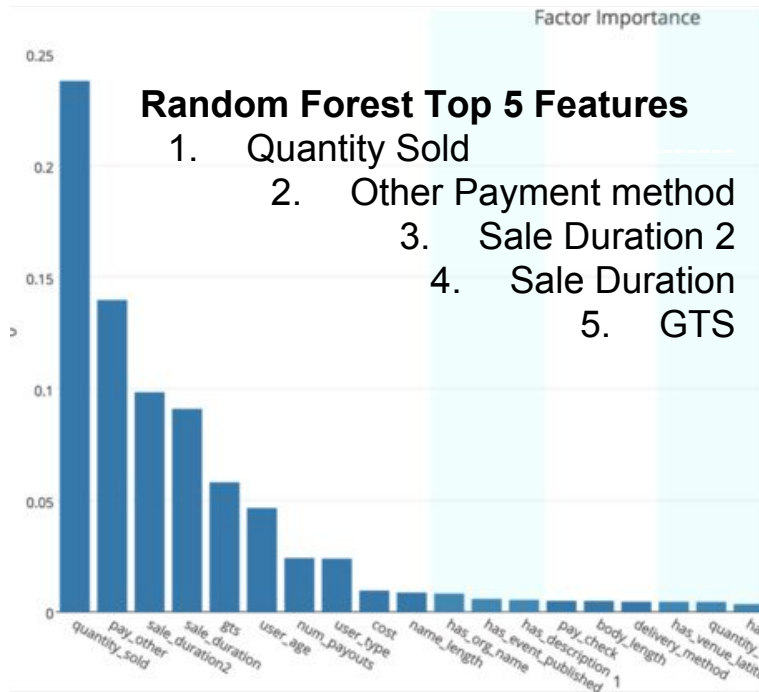
- **Data**
 - Lots of text
 - Variety of null data values
- **Feature Engineering**
 - NaN removal
 - Has_indicator feature (1/0)
 - Ex: has_twitter
 - Natural Language Processir



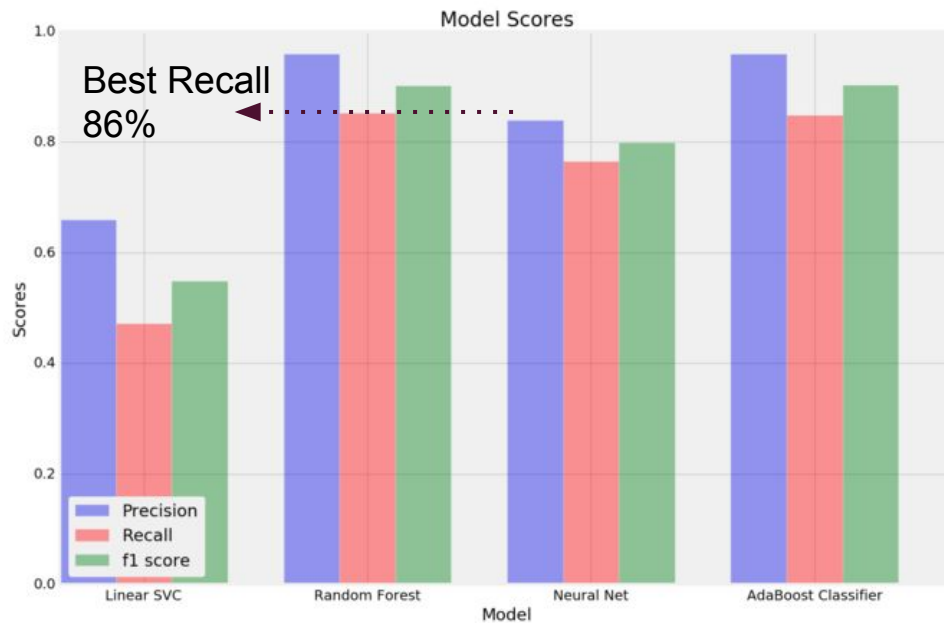
Project Scope and Deliverables

- **PROJECT SCOPE**
 - To accurately identify potential fraud cases using machine learning.
- **DELIVERABLES**
 - Deploy a web app to predict fraud cases for further investigation as data comes in live.
 - <http://ec2-52-86-7-15.compute-1.amazonaws.com:8106/>

Random Forest Model

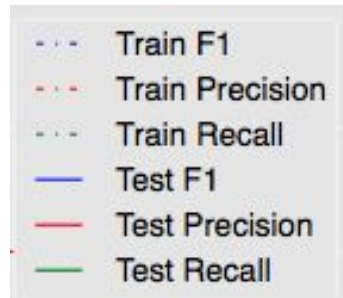
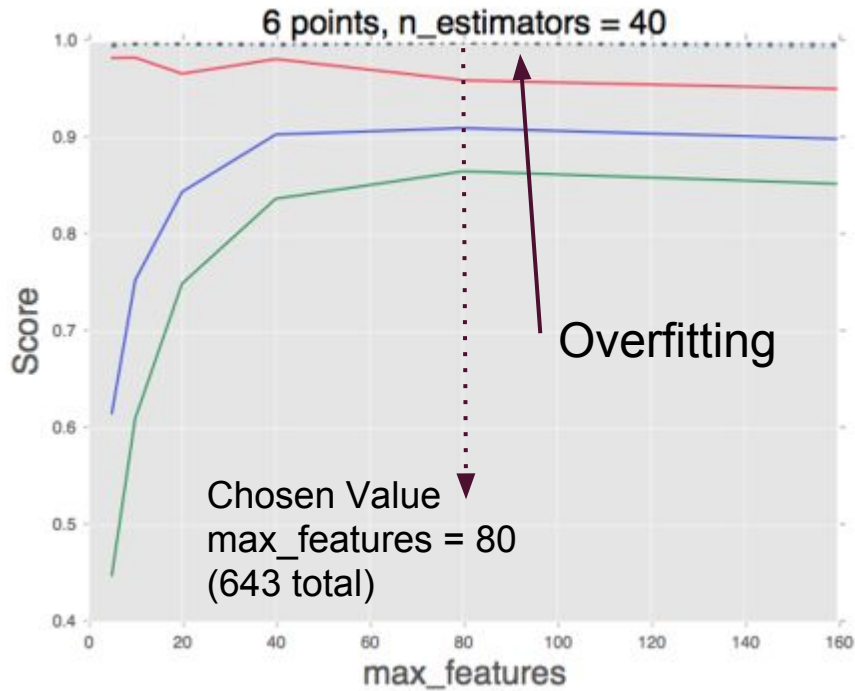


- Features & Comparison

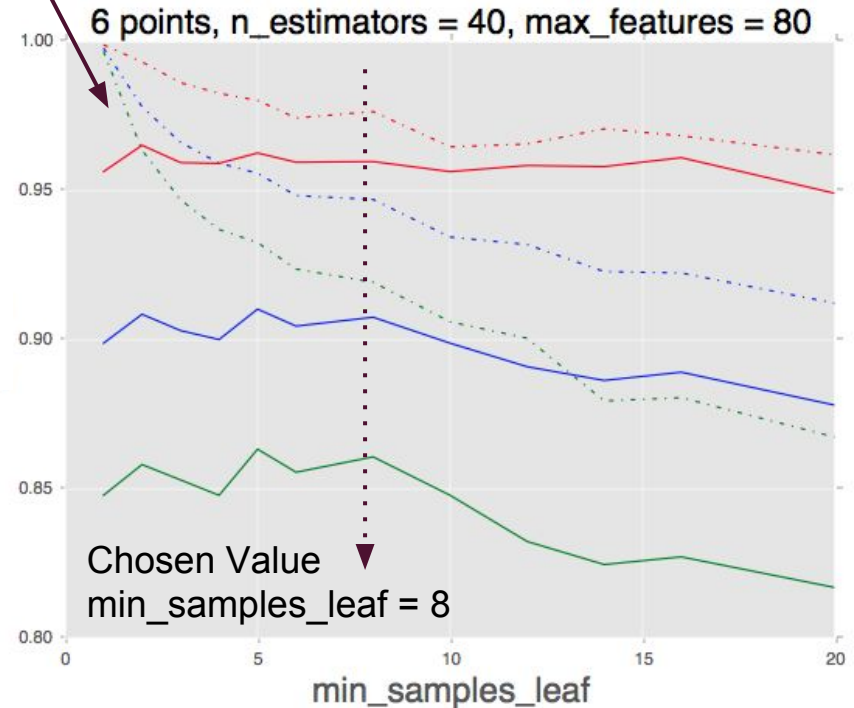


Linear SVC | **Random Forest** | Neural Net | Adaboost

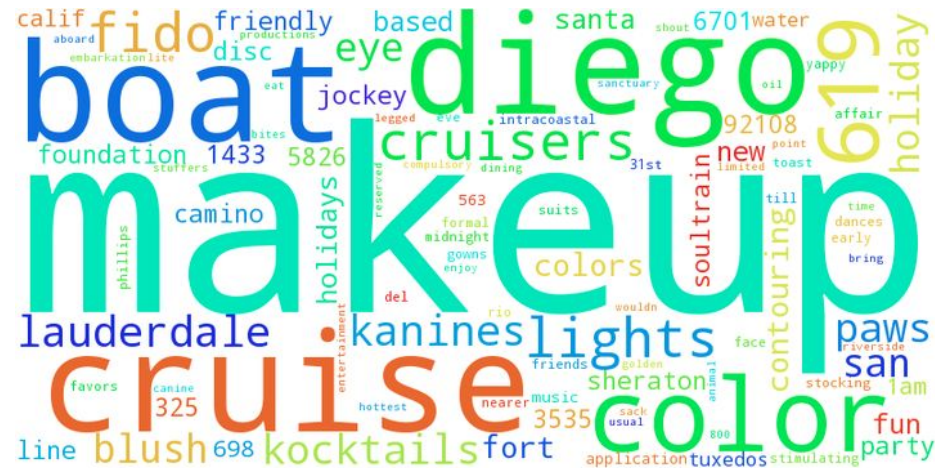
Random Forest Hyper-Parameters



No Overfitting



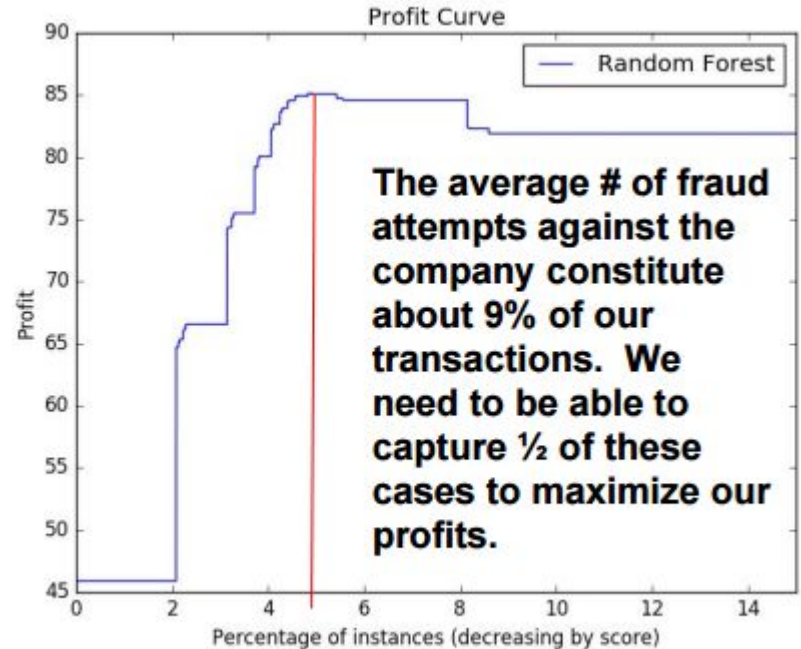
Not Fraud



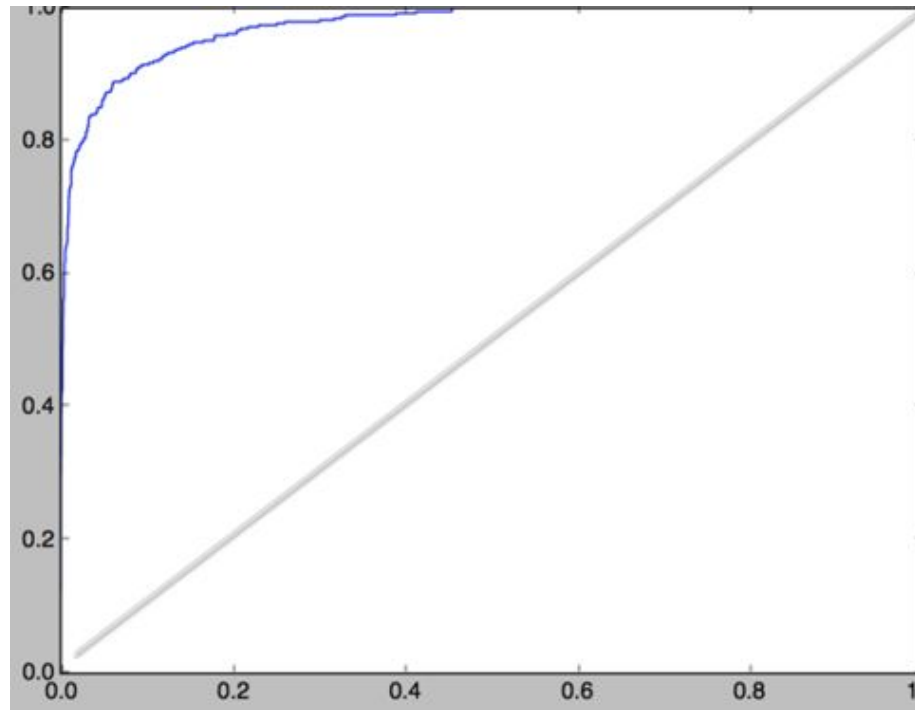
& Profit Curve

Cost Benefit Matrix

| | Fraud | Not Fraud |
|-----------|--------|-----------|
| Fraud | -\$50 | \$50 |
| Not Fraud | -\$500 | \$100 |



ROC Curve



Prediction Highlights

Book Now For Our 2 Hour Seminar

- How to replace your income in as little as 2 years
- How to pay your home off in 6 years
- Understand market timing: learn about the property clock and when to buy
- How to reduce your taxes legally, potentially to £0
- Build a balanced real estate portfolio structured for portfolio protection
- How to diversify your portfolio across different markets
- Learn the secrets ONLY 5% of investors know that generate massive wealth
- Discover how YOU can find properties that pay you the most
- Learn how to add massive value, create instant equity
- Avoid common finance traps that destroy the investing
- Learn effective debt reduction secrets that most people don't know
- How to save time by having a team of experts source properties for you

Prediction: Potential FRAUD

Prediction: Not fraud

Description:

Thanks for being awesome

Prediction: Potential FRAUD

Description:

You can get money from our gameshow. In a lot of people who joined in our game show, u must choose our question asap. The computer will choose the fastest people who answer our question correct and faster more than all people. So, u have to 15 question multiple choice. U will get some money from ur correct question.

Labeled FRAUD by Location

