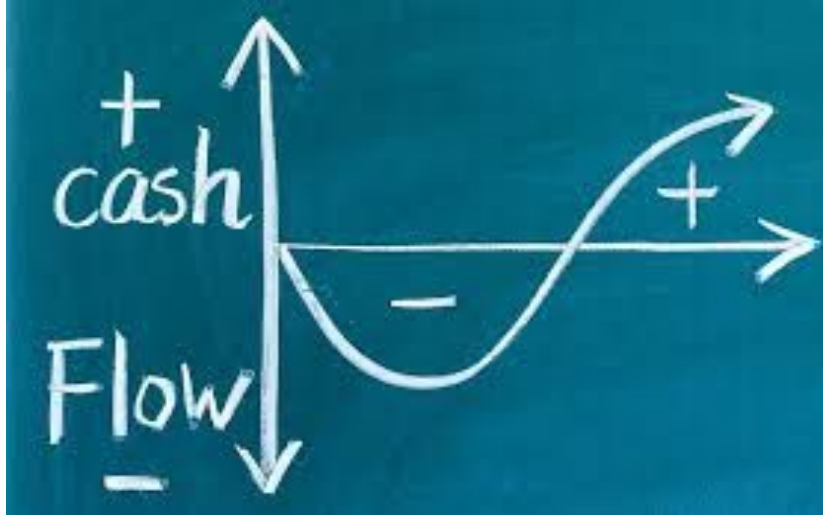


Predicting Insurance Claims
Matan Gavish

Cash Flow Problems?

Mischaracterizing drivers can lead to too much cash outflow and not enough inflow



GOOD DRIVERS



VS

BAD DRIVERS

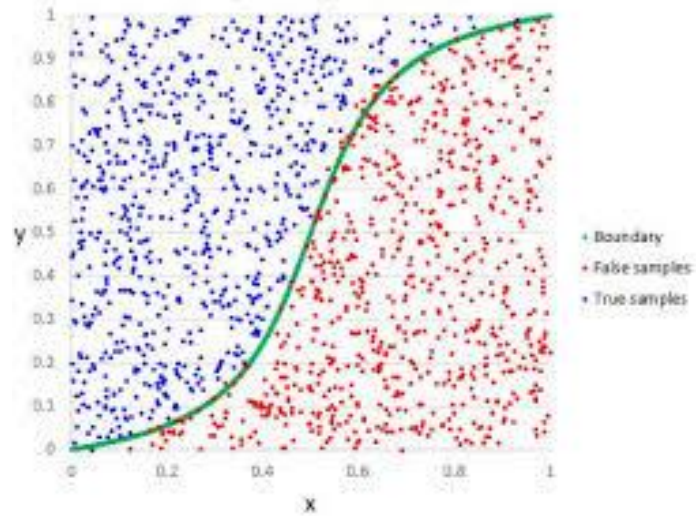


Poor cash flow and expense forecasting can make a good business go bad

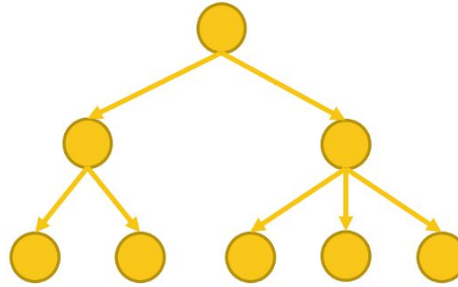
Customized premiums based off strong correlations let us tailor our rates

Accurate predictions make for good business and happy customers

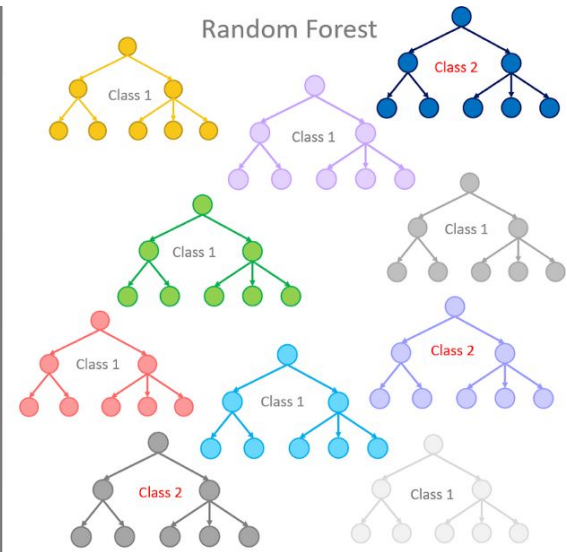
Logistic Regression Example



Single Decision Tree



Random Forest



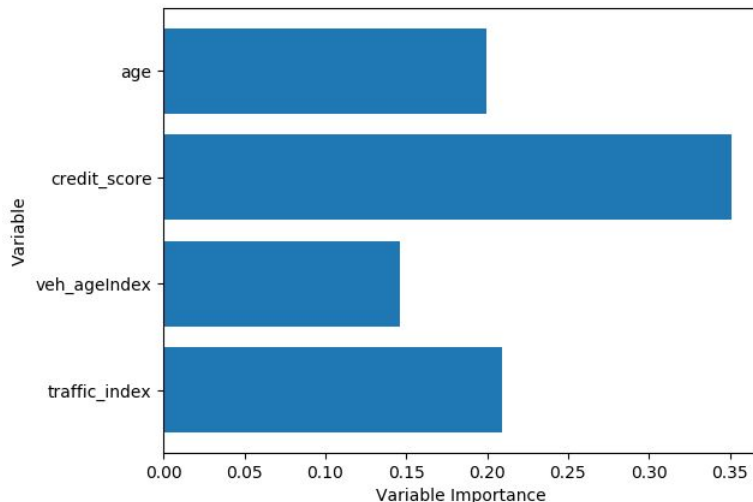
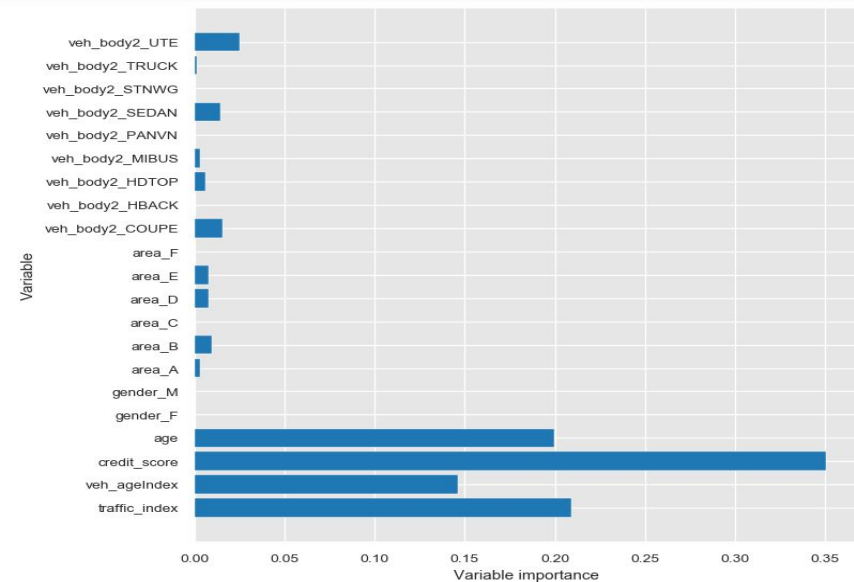
Findings

- Not enough germane data
 - A dozen models later...and insignificant results

Recommendations

- Not enough germane data
 - A dozen models later...and insignificant results

- Change data aggregation focus



Future Work

- Research on additional predictors of propensity to file claim
 - Research papers
 - Public datasets
 - Different insurance products, eg, homeowners, renters, health...etc.
- Feature engineering potential using other company databases

Thank you!