

# Predicting revenue from online shopper behavior

By Akiva Neuman

## Problem Statement

- Predict what type of behavior leads to to an online purchase
- Classification Problem

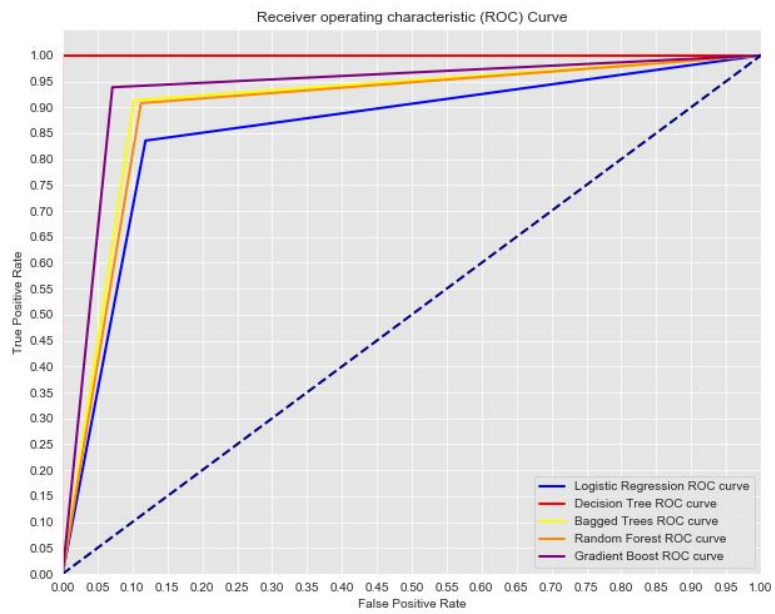
## Business Value

- Identify online shopping behavior trends that lead to revenue
- Adjust marketing strategy to capitalize on revenue generating trends

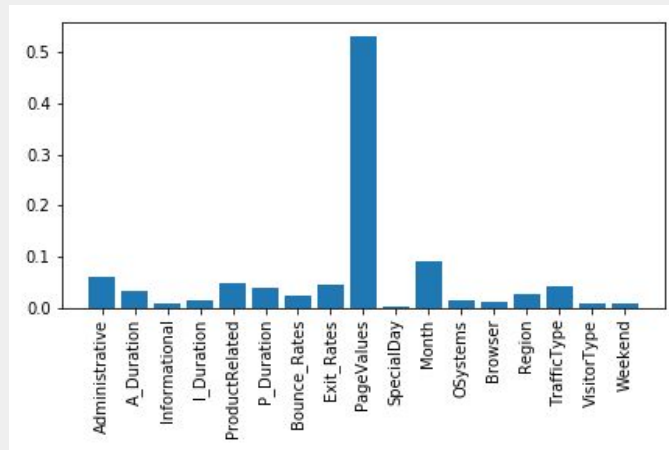
# Methodology

Model	Precision %	Recall %	Accuracy %	F1 Score %
Logistic Regression	88	84	86	85
Decision Tree	100	100	100	100
Bagged Trees	90	91	91	91
Random Forest	89	91	90	90
Gradient Boost	93	94	93	93

The decision tree classified revenue occurrence optimally.



## Findings



The feature that is the most likely positive predictor for revenue is PageValue, the average amount of times a page leads to revenue. Month also is a likely positive predictor because during certain months of the year consumers purchase more.

## Future Work

- Build more predictive models
- Learn predictive modeling mechanics

Thank you