Predicting SaaS Revenue Multiples

Intro to Data Science and Machine Learning

Group 16

Revenue Multiples

4b

200m

20x

Enterprise Value

TTM Revenue

EV/TTM

MARKET CAP MINUS CASH PLUS DEBT

BASED ON SEC FILINGS

Software as a Service

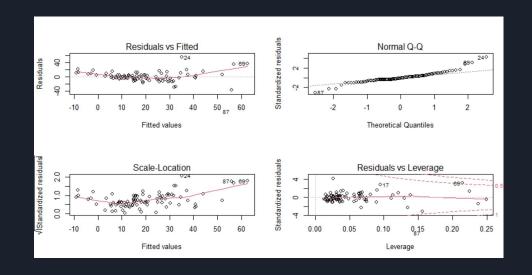
- Users access the software through their internet browser
- Generally the users are business and not consumers
- Example 1: Zoom
- Example 2: Shopify
- Ford = 1.11
- Shopify = 11.26

Data Set

- 90 companies from the SEG SaaS Index
- Response: TTM Multiple
- Predictor 1: YOY Revenue Growth %
- Predictor 2: EBITDA Margin %
- Predictor 3: Sales Efficiency %
- Predictor 4: Gross Margin %

Linear Regression

- Multiple Linear Regression was best model
- -23.688 + 40.315 * rev_growth +
 11.526 * sales_efficiency + -16.316
 * ebitda_margin + 32.586 *
 gross_margin



Random Forest

- Cross Validation MSE= 10.74447
- Random Forest MSE=15.06094
- Boosting MSE=13.32366

