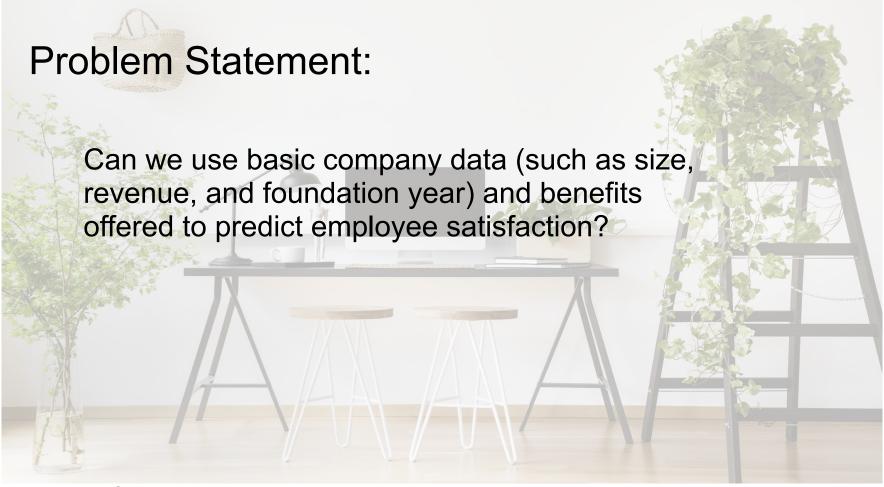
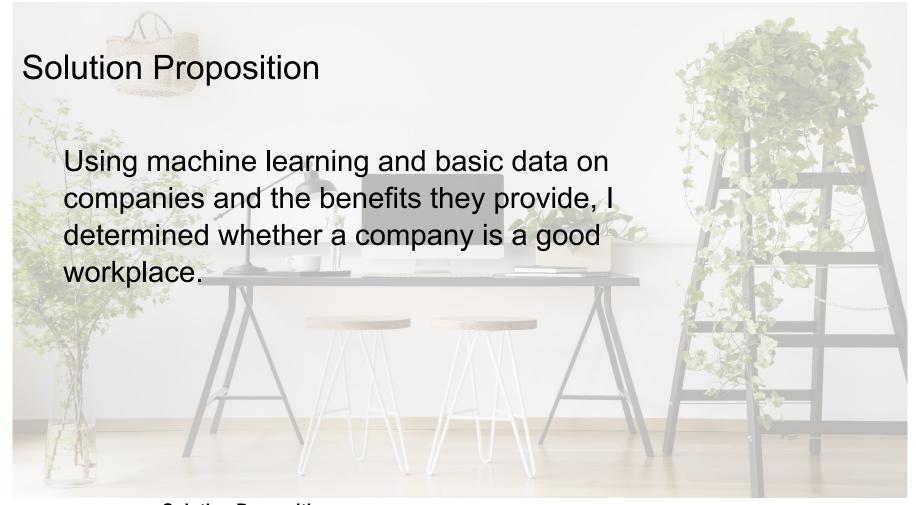


# Agenda Problem statement Solution Proposition Data Source EDA Modeling **Model Evaluation** Conclusions and Recommendations Questions





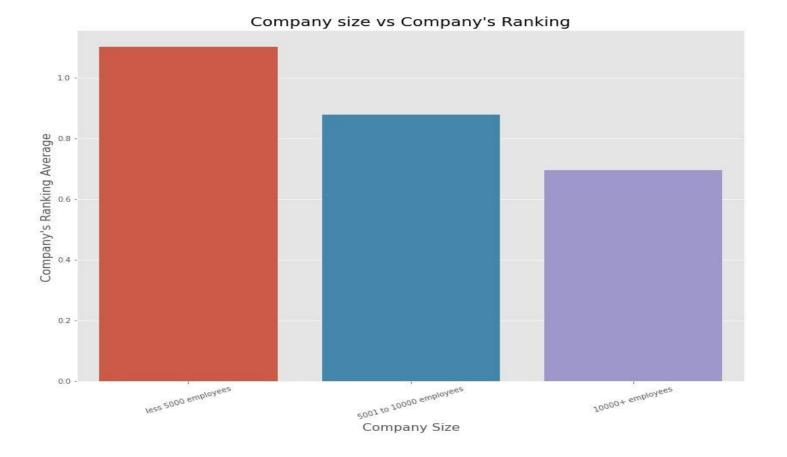
#### Data

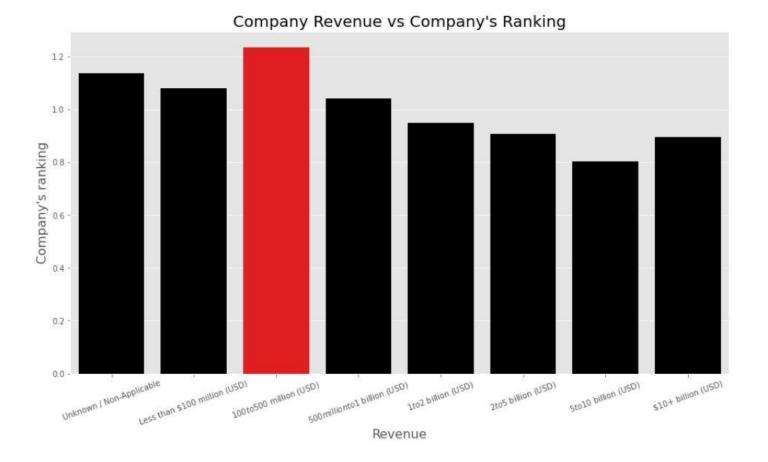
Web Scraping: Glassdoor.com

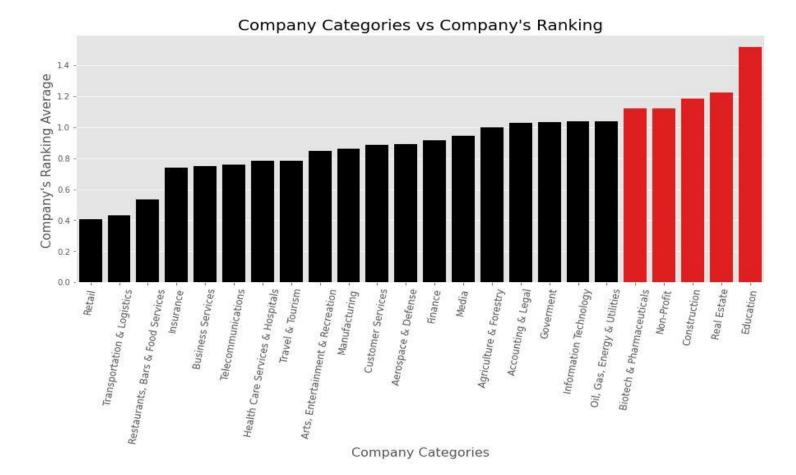
Result: 2651 Companies and 80 Features

Date of collection: March 10, 2021

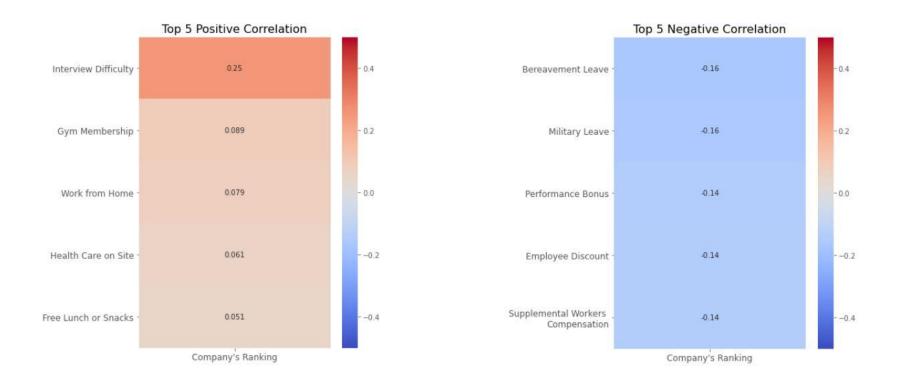
 Convert company ratings 1-5 stars (including fractions) into just 3 categories: above average, average, below average companies







# Correlation between features and company's ranking



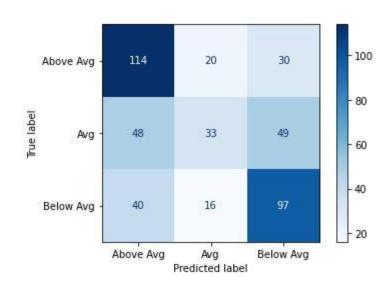
# Modeling

#### Classification:

- SVC
- Random Forest
- ADA Boost
- Logistic Regression
- Decision Tree
- Extra Tree
- K-NN
- Gradient Boost

#### Model Evaluation

- Gradient Boost Classifier is the best model
- This model has an accuracy rate of 55%
- This may seem low but is nevertheless statistically significant, because the baseline is 36%
- The model is not so good at predicting a satisfaction levels of the 'average' class but is fairly accurate for 'the above average' and 'below average classes'



### Conclusions and recommendations

- Normally the benefits considered most important for employees are healthcare and pension/401k
- Interestingly, the results of my analysis indicate that other features have a much higher predictive value when it comes to employee satisfaction
- To improve the model, results would be more robust if companies are divided into just two classes: 'above average' and 'below average'.
- Find the way to obtain data about other importance features such as salary range
- We should bear in mind that employee satisfaction is a highly subjective notion

