Salary Prediction

Regression Analysis

Project Description

Main objective

What are your salary expectations?

Data Components

- * Company Size
- * Company
- * Type of Ownership
- * Job Titile
- * Sector
- * Skill sets

Tools Used:

- Pandas
- SQL Spark
- Tableau
- sklearn

Overview

Data Collection

Data Exploration

Regression Model

Conclusion

Data Collection

Source:

- <u>Kaggle</u>
- Scraped from Glassdoor.com
- 2017 dataset



Data Exploration

- Extract, Transform and Load- ETL
- <u>Data Visualizaton- Tableau</u>

Finding
Duplicates

Focusing on Columns Needed

Relevant columns for the analysis

Splitting and
Deleting special
characters

Cleaning up each column with special values or characters

Exploring each columns

Unique values of each column

Questions

- What's the median pay for roles in the field of data?
- What's the top-paying job title in the data-driven domain?
- Which technical skills are the hottest in the job market?
- Which state has the highest paying data related jobs?
- Is my paycheck influenced by the company's size and industry sector?
- Does higher salary mean higher job satisfaction?

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Median Salary

Python

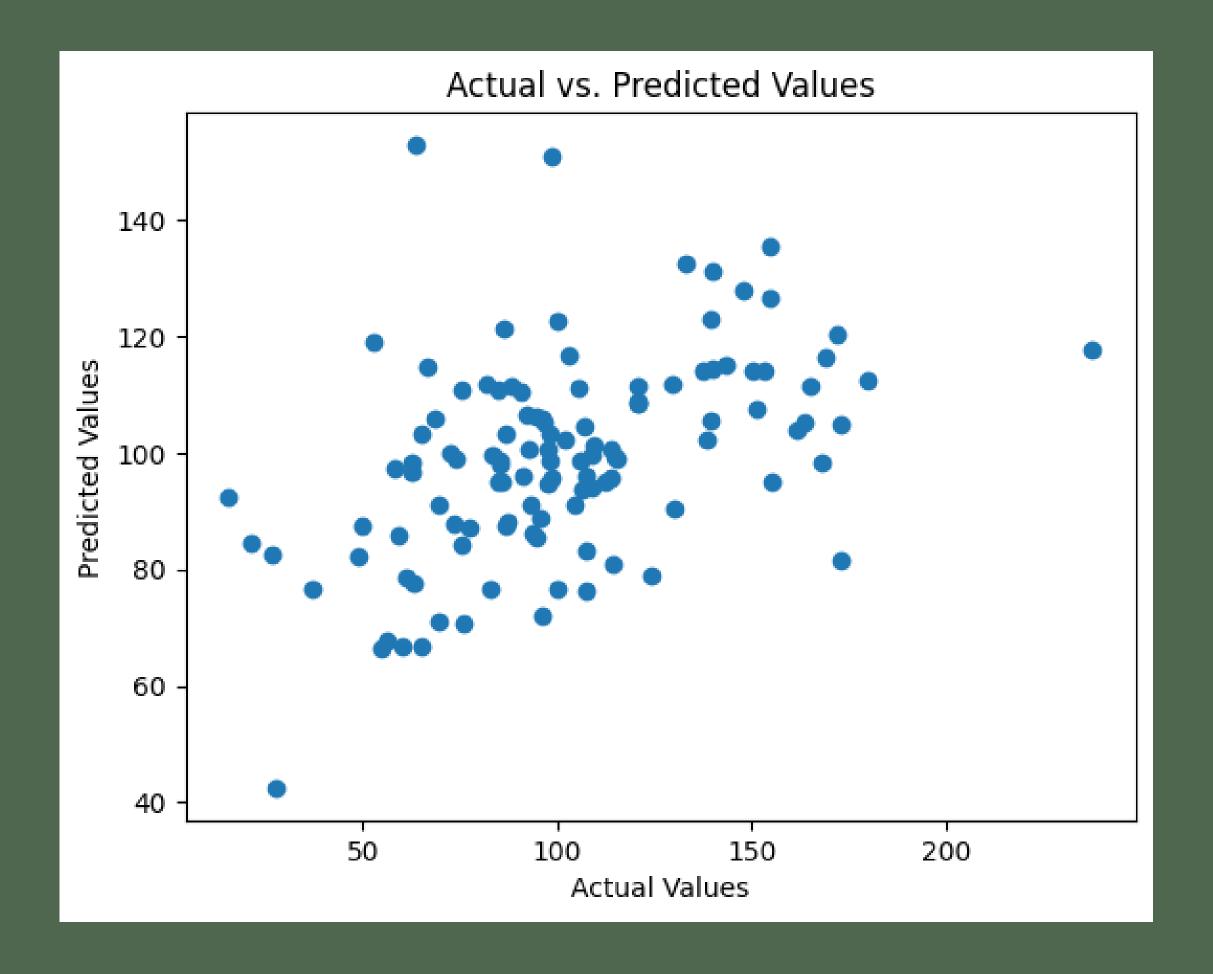
Hottest technical skill

California

Highest paying data related jobs

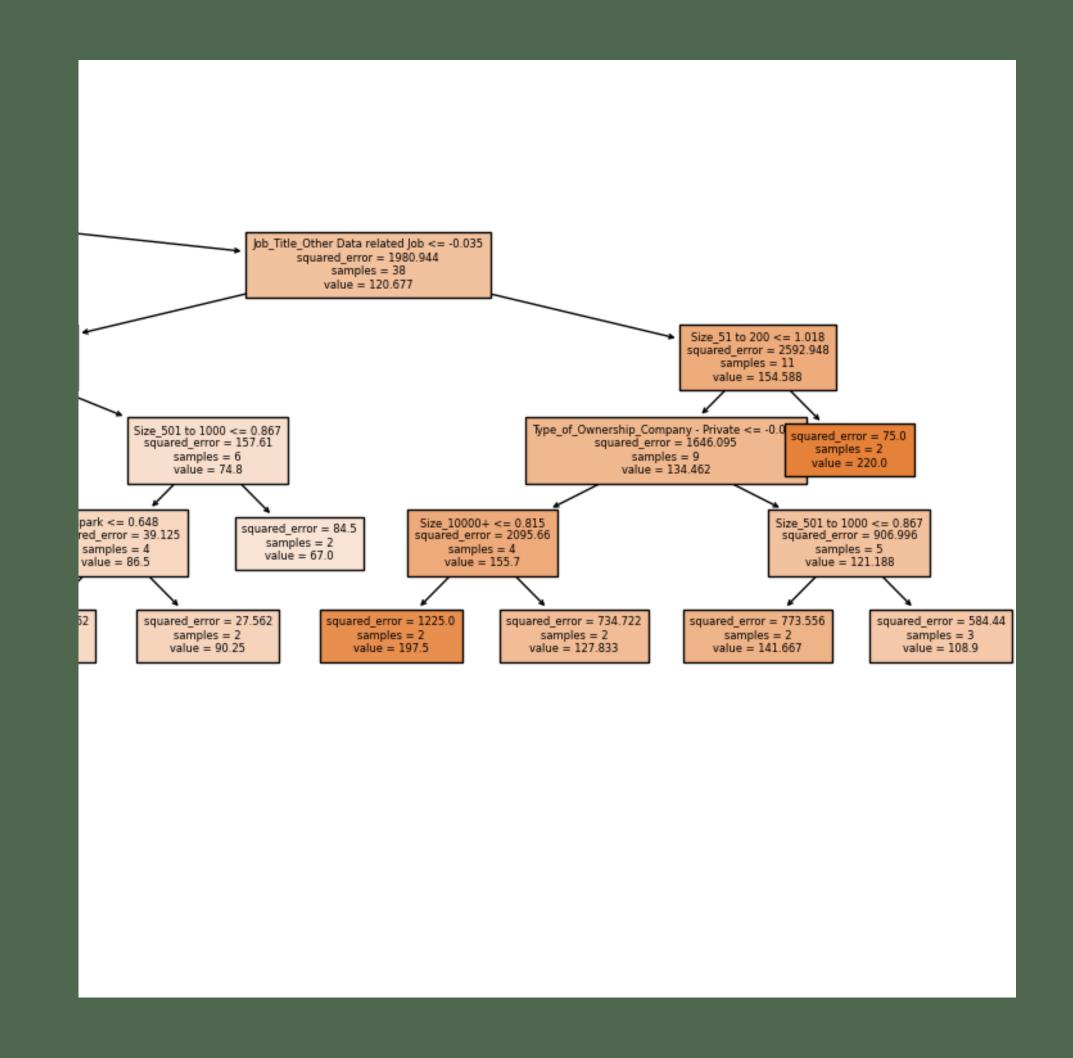
Random Forest Regression Model

- Mean Squared Error:1132.4634701623736
- Root Mean SquaredError:33.65209458803974
- Mean Absolute
 Percentage Error:
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DATA SELECTION

Add more Features

Features such as job experience, data related experience and education qualifications

CLASSIFICATION

Using Classification instead of Regression

By creating different bins for salary.

CHALLENGES

- Data Collection: Choosing the right data
- Model: Choosing the right model

Thank you!