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PROJECT ON

AMCAT Data Analysis

Submitted By,
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About me

- I’m Sri Charan Thoutam, I have recently completed my bachelor’s degree in Computer Science and Engineering (AI & ML).

- I'm passionate about data science because it allows me to uncover patterns and insights from the data to solve real-world problems. I enjoy working at the intersection of data, technology, and business to create meaningful impact, and I'm particularly excited about using AI and machine learning to build scalable solutions

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Objective of the analysis

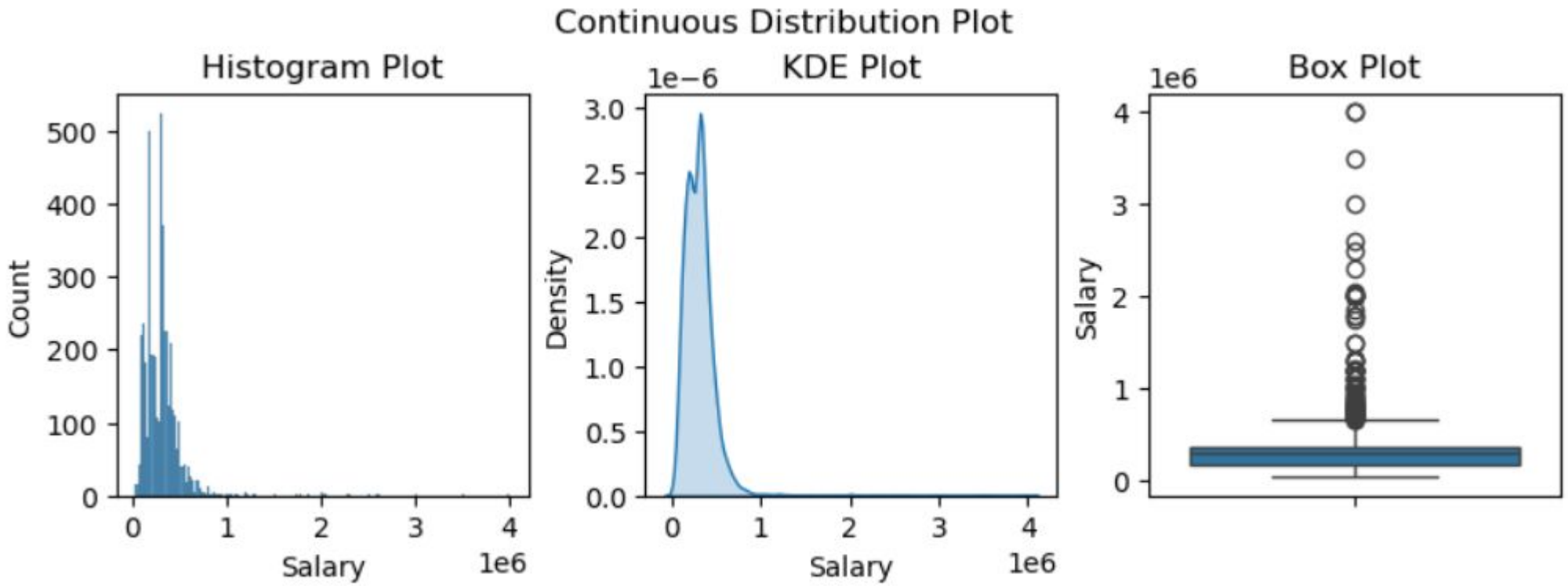
The goal of this project is to conduct a comprehensive exploratory data analysis (EDA) that includes both univariate and bivariate analyses. This analysis aims to:

- **Understand the distribution of individual variables (univariate analysis).**
- **Identify outliers within the dataset.**
- **Explore relationships between different variables (bivariate analysis) to uncover insights related to salary expectations**

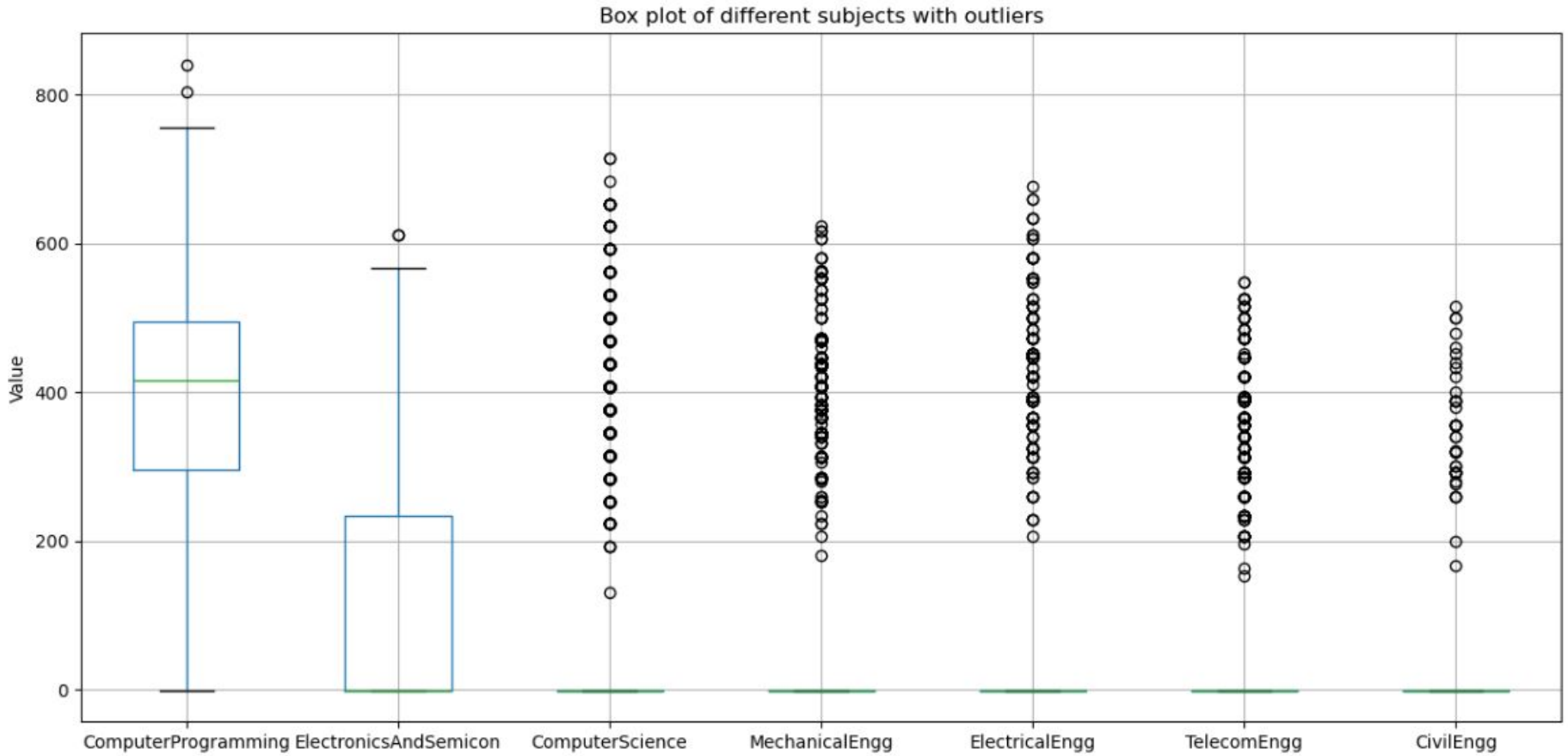
Introduction

- The dataset consists of information about individuals, their educational background, job details, and personality traits. It contains 38 columns and 3998 data points. They are independent variables, both continuous and categorical in nature.

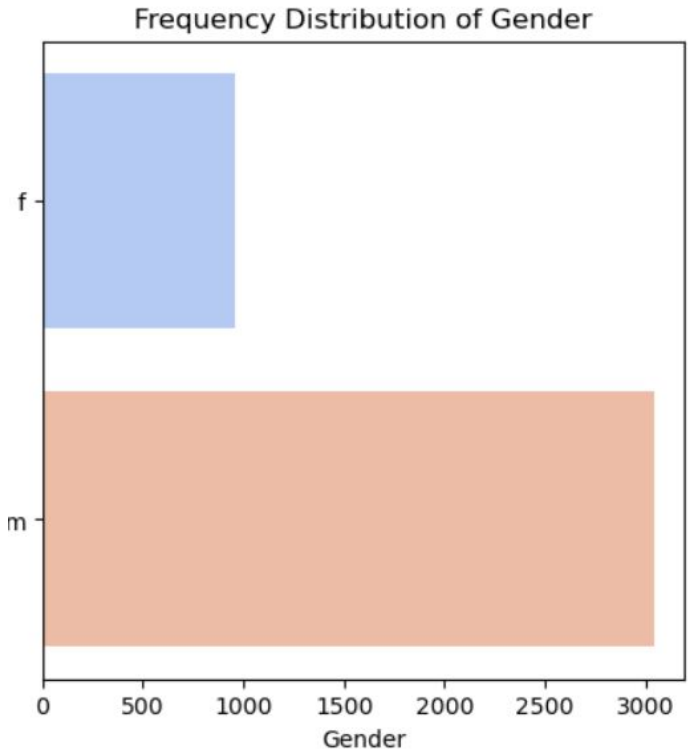
Univariate Analysis

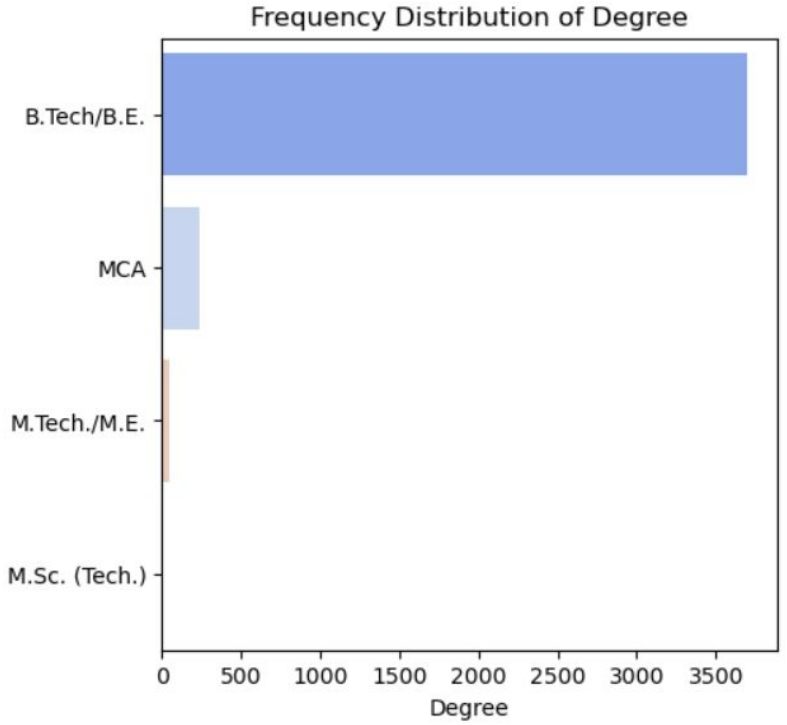


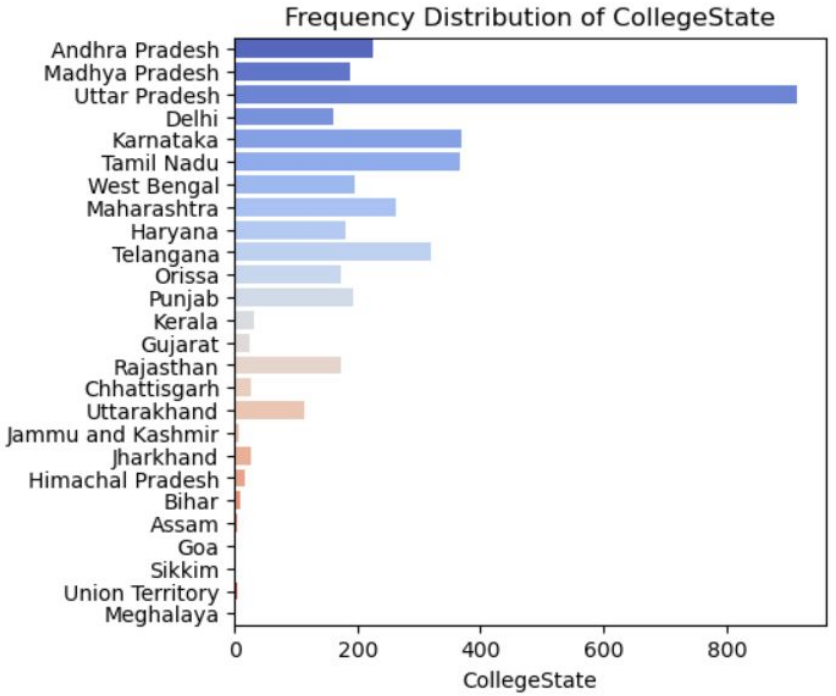
Salary distribution among candidates



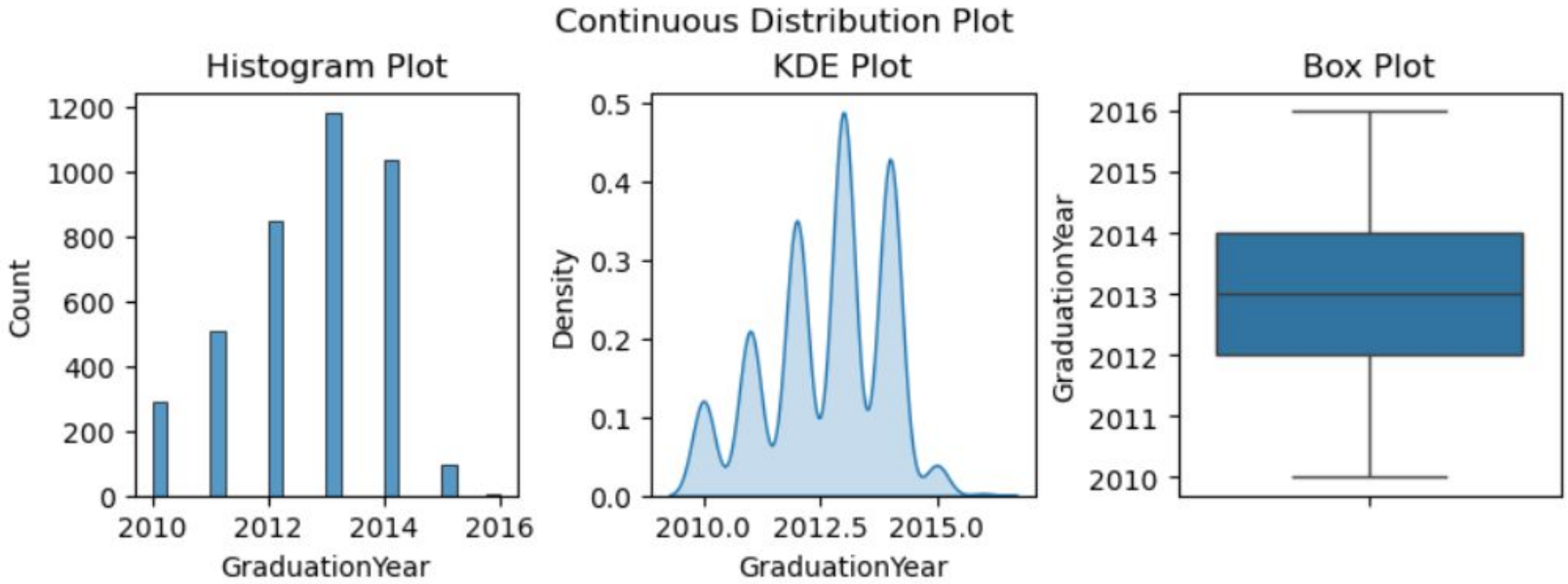
- **Compared to the other categories, computer programming has the widest range of scores and the highest median value.**
- **The least variable fields with a significant number of outlier examples include computer science, mechanical, electrical, telecom, and civil engineering.**







- **The test was taken by more men than women.**
- **The majority of the candidates hold a B.Tech or B.E degree, with very few holding an Msc. (Tech) degree.**
- **The majority of applicants went to colleges in the state of Uttar Pradesh. The next two states with the highest percentage of college-attending candidates are Tamil Nadu and Karnataka.**

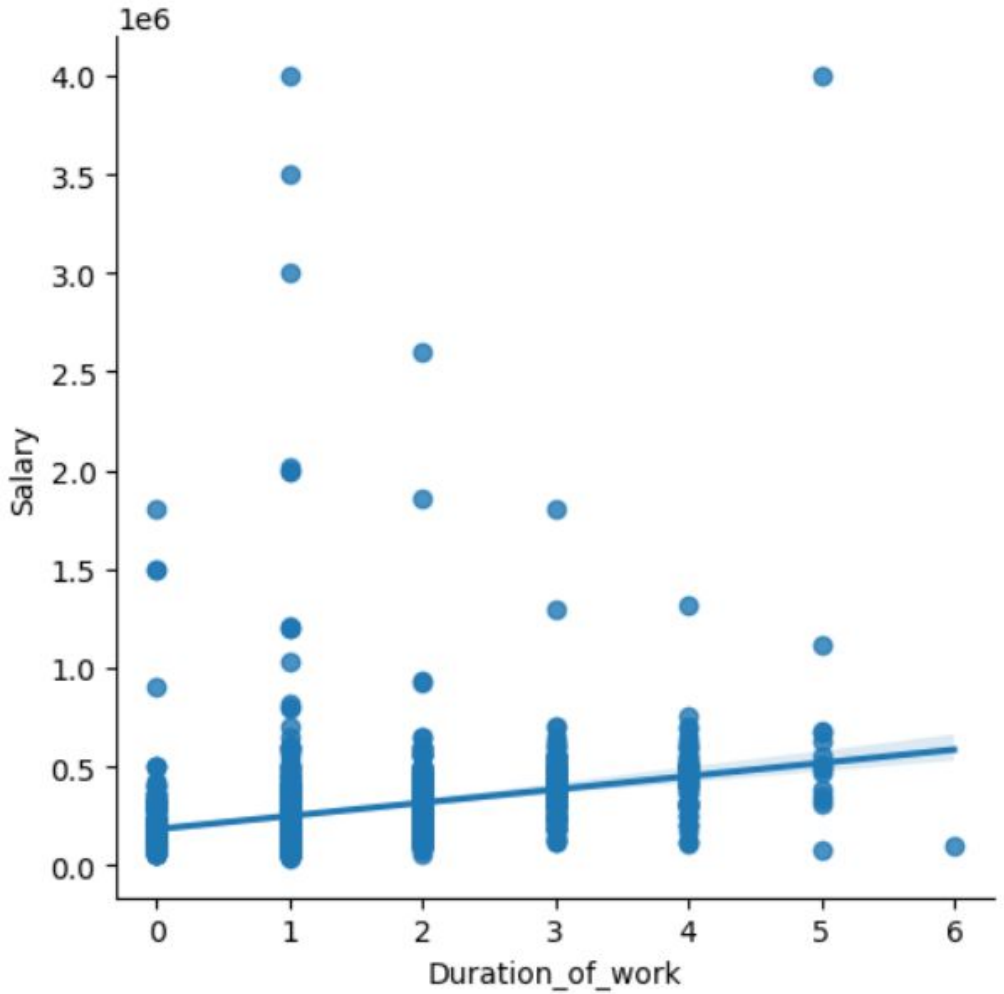


The most common graduation year is 2013, followed by 2014 and 2012.

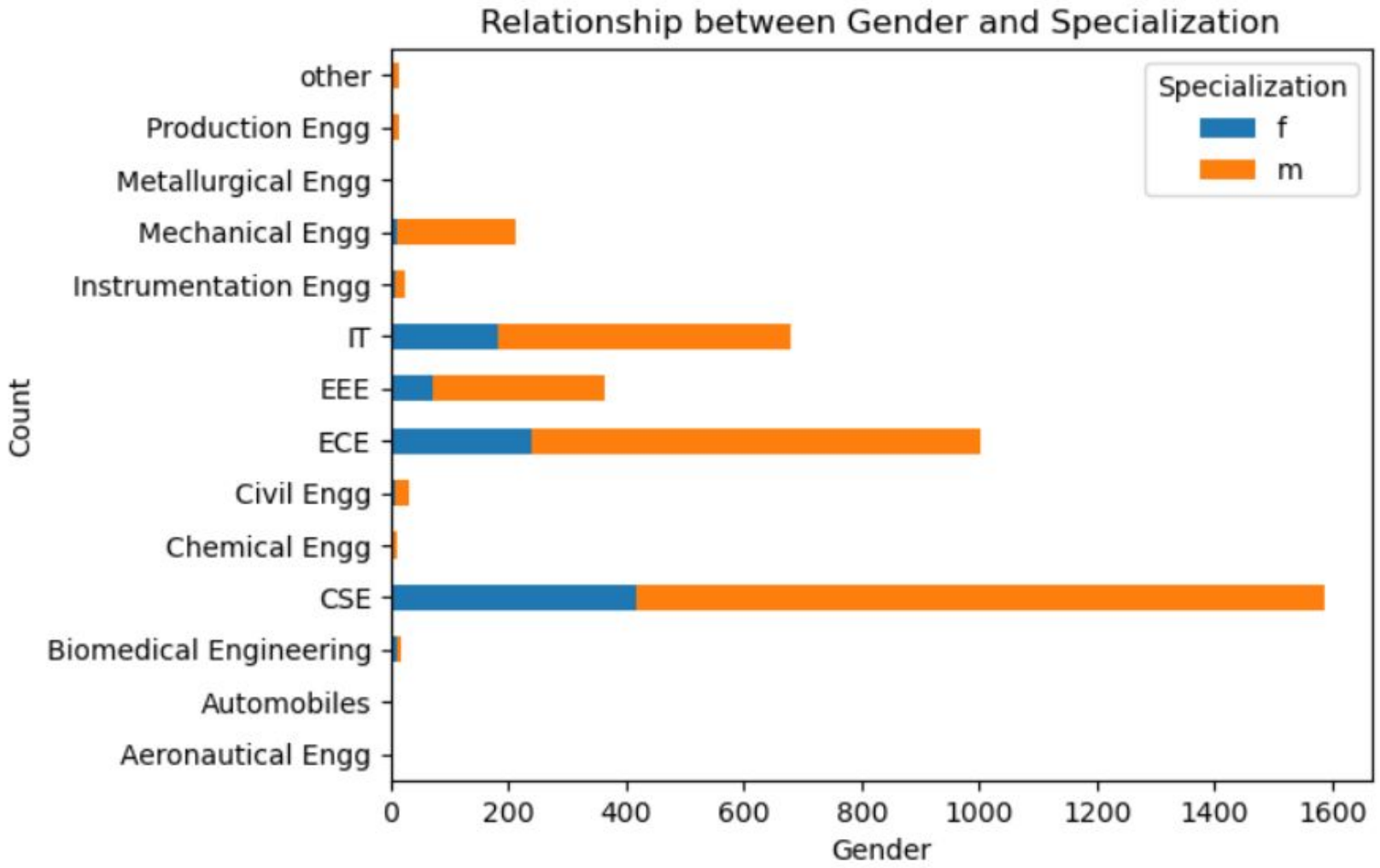
Bivariate Analysis

From the plot, we can see men receives a larger salary distribution, meaning they make more money.

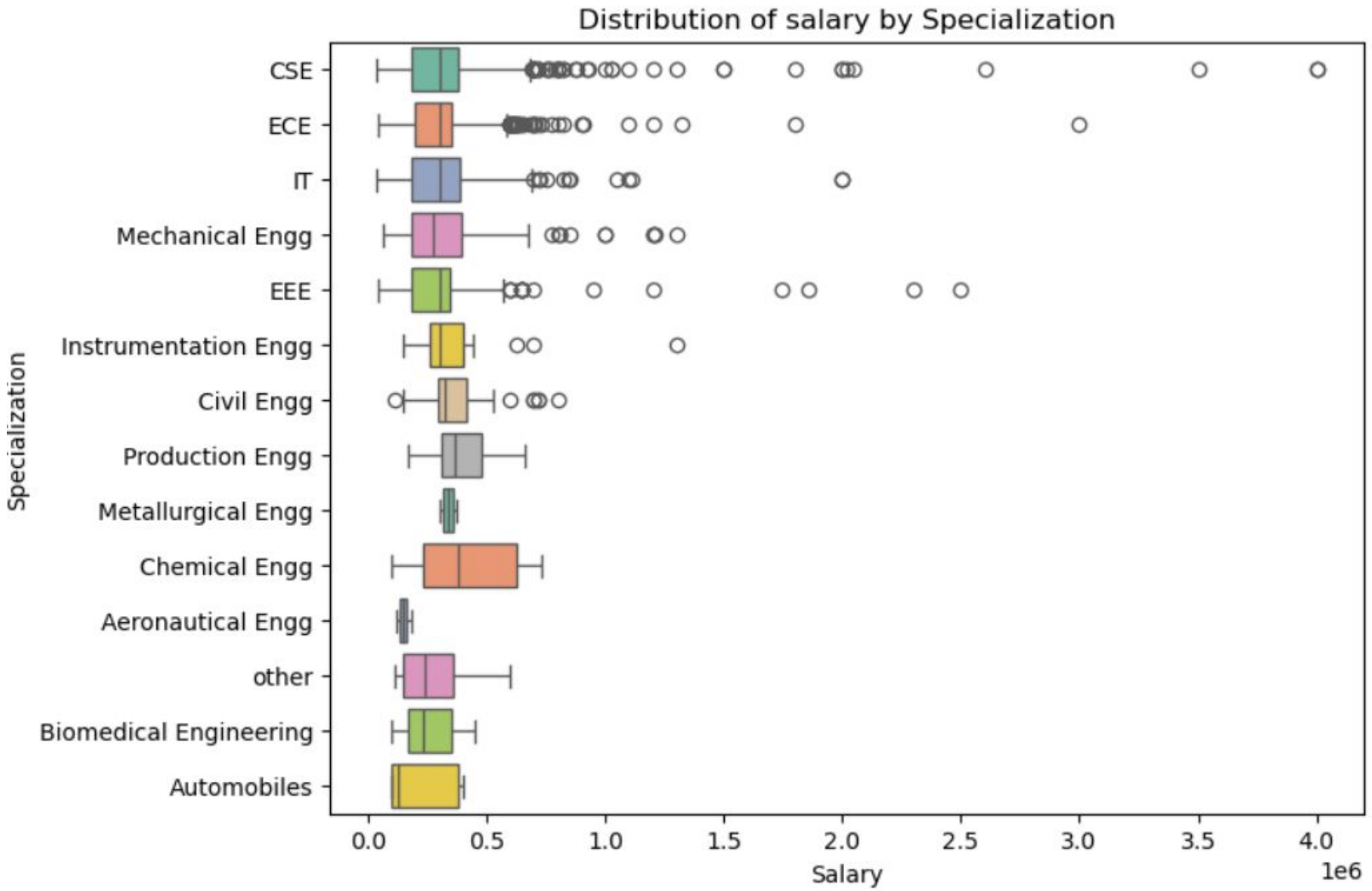
Salary vs Experience



Relationship between Gender and Specialization



Distribution of salary by Specialization



- A few individuals in certain specializations earn significantly higher salaries.
- CSE has the most outliers, followed by ECE and EEE
- Chemical engineering has a wider spread of salary range
- Individual skills, experience, and job market conditions, play a crucial role in determining salary.

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Conclusion

The analysis provides insightful conclusions regarding salary trends, specialization and skill sets of fresh graduates in different role. It highlights, how individual skills, experience, and job market conditions, play a crucial role in determining salary.

THANK YOU

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