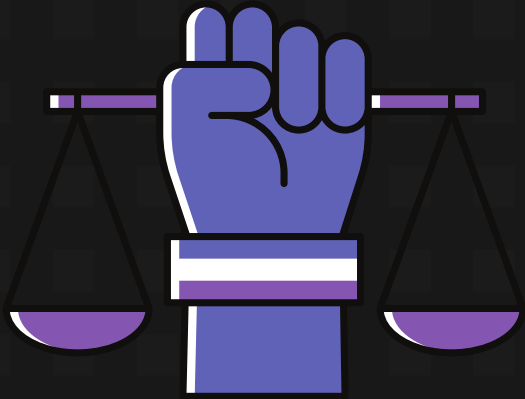


GENDER WAGE GAP AND SALARY PREDICTION

BERRA KARAYEL





PROBLEM STATEMENT

In today's society, gender pay gap remains a significant issue across various industries and professions worldwide. Understanding the factors influencing salary discrepancies between genders is crucial for promoting fairness and equality in the workplace. This project aims to analyze the Gender Pay Gap using the 2018 Kaggle Machine Learning & Data Science Survey dataset, focusing on factors such as age, education, profession, industry, and experience.



DATA SET

2018 Kaggle Machine Learning & Data Science Survey Data

In this project, the questions that are used:

- Gender
- Age
- Nationality
- Education
- Major
- Profession
- Industry of profession
- Ancienety
- The annual income

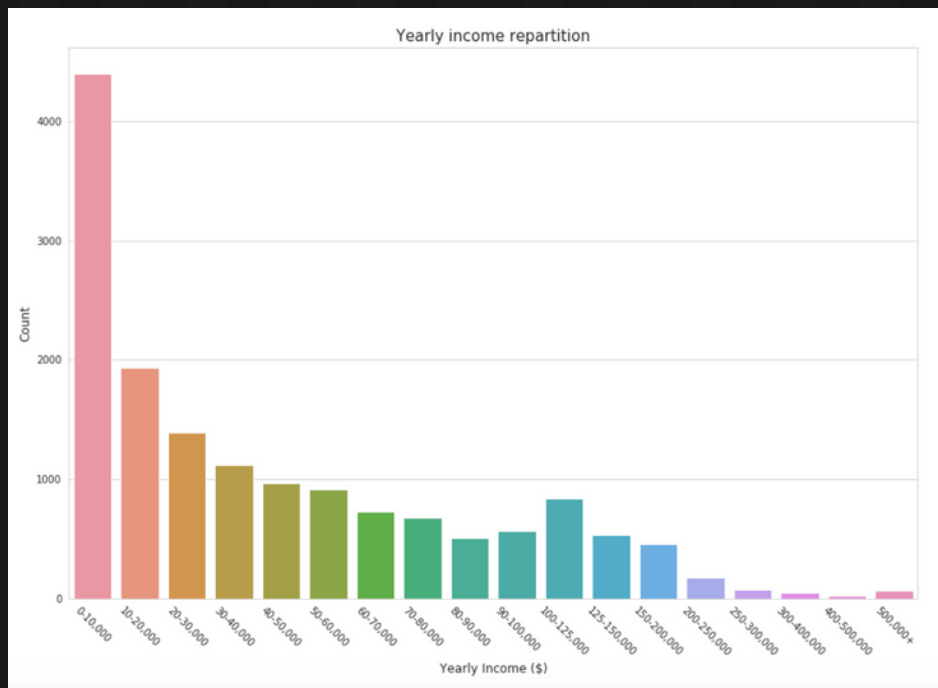




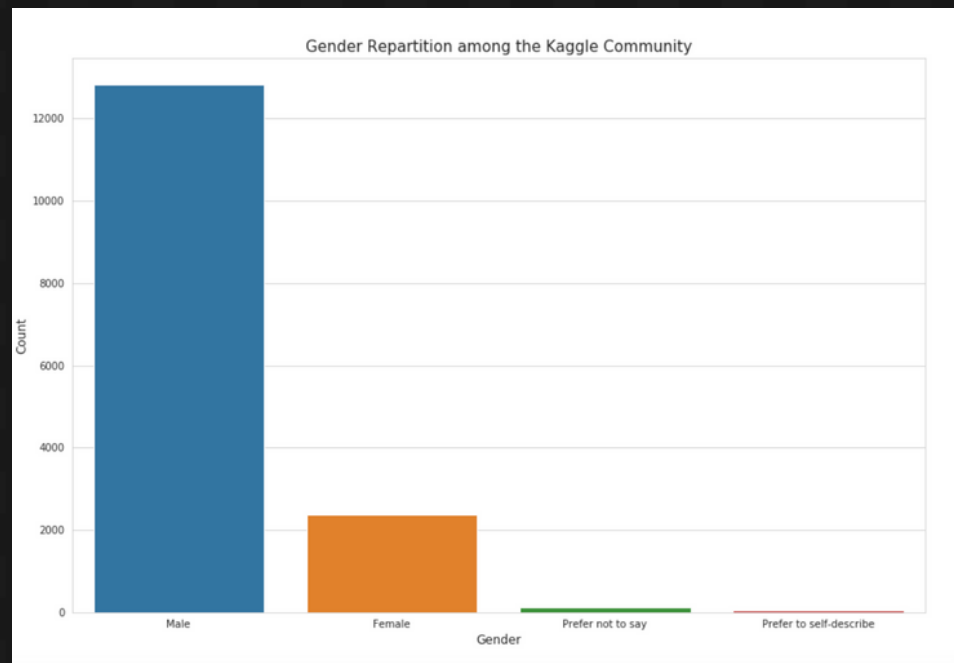
METHODS

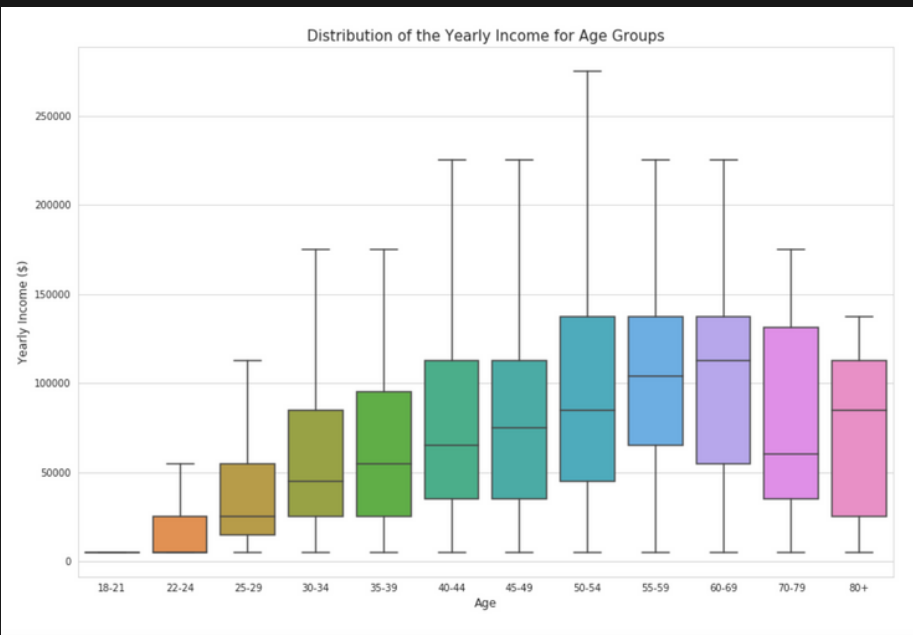
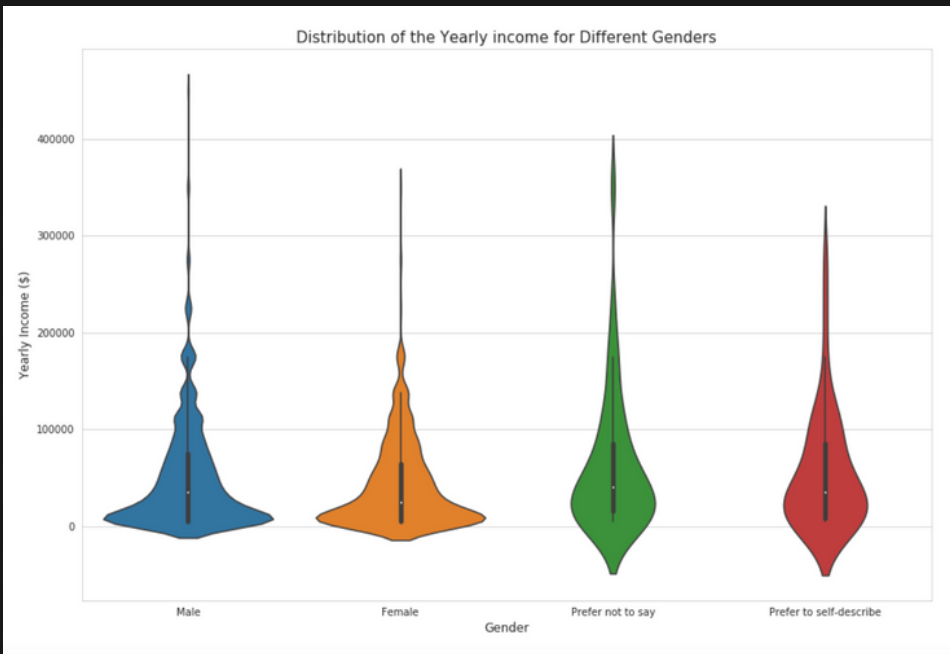
- Target visualization
- Exploratory Data Analysis & Gender Wage Gap Analysis
- Machine Learning Model Design

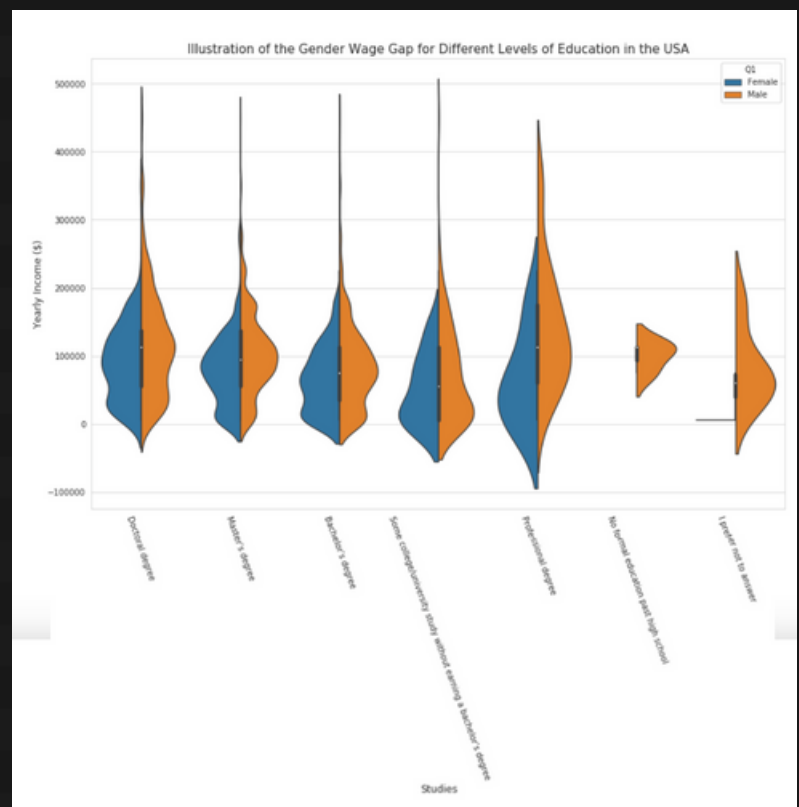
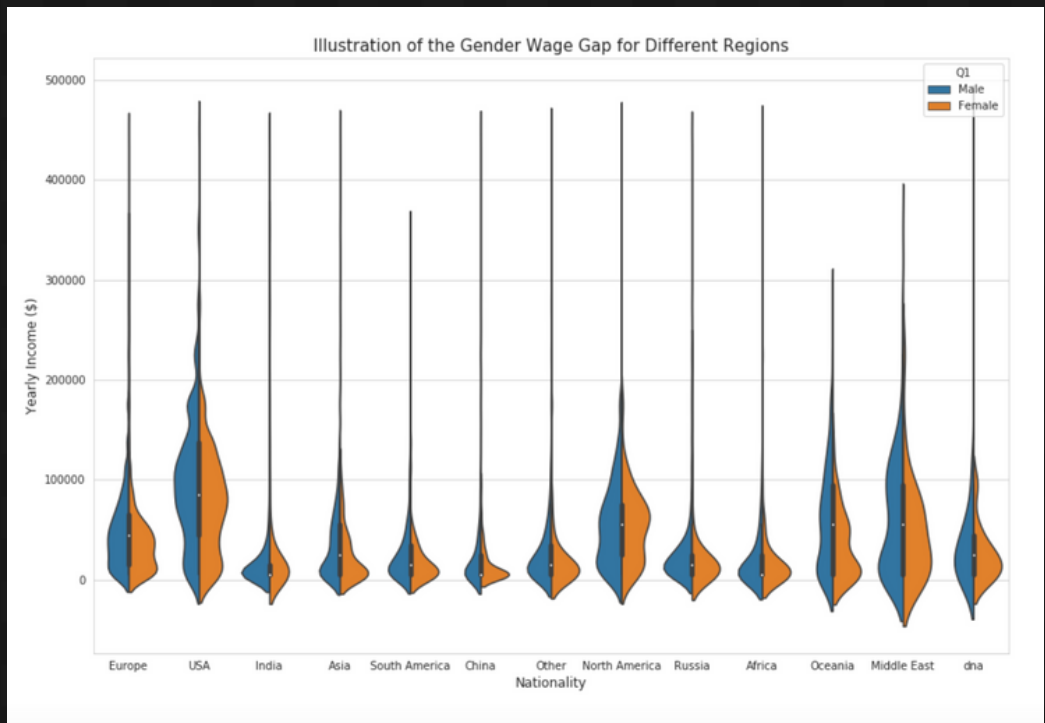




EXPLORATORY DATA ANALYSIS







Percentage of Women in Jobs, Sorted by Average Salary in the USA

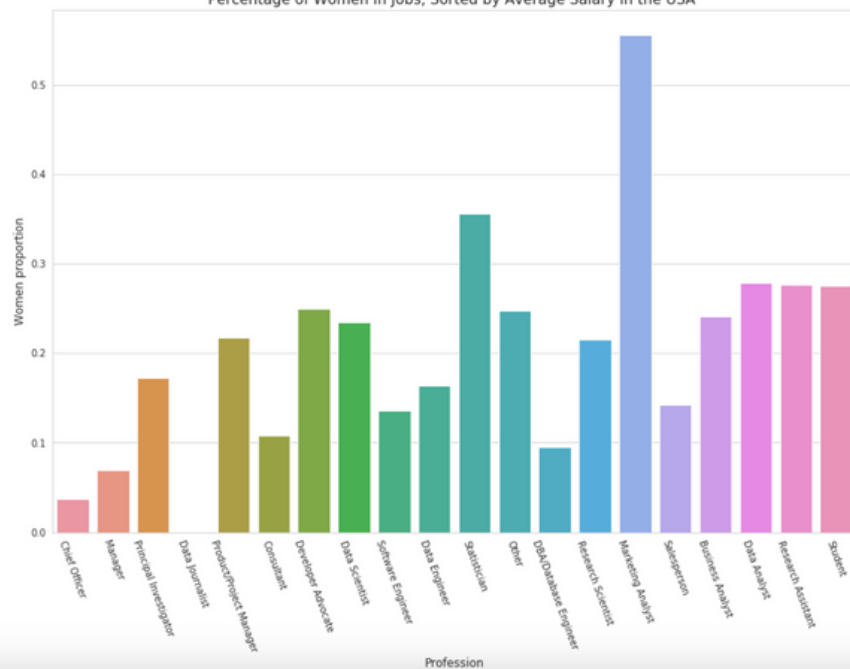
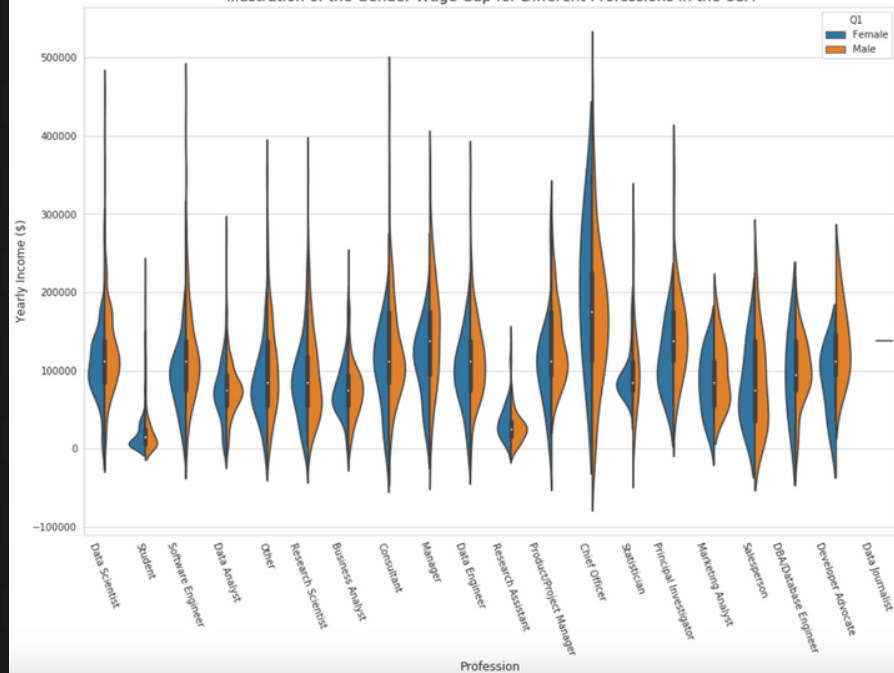
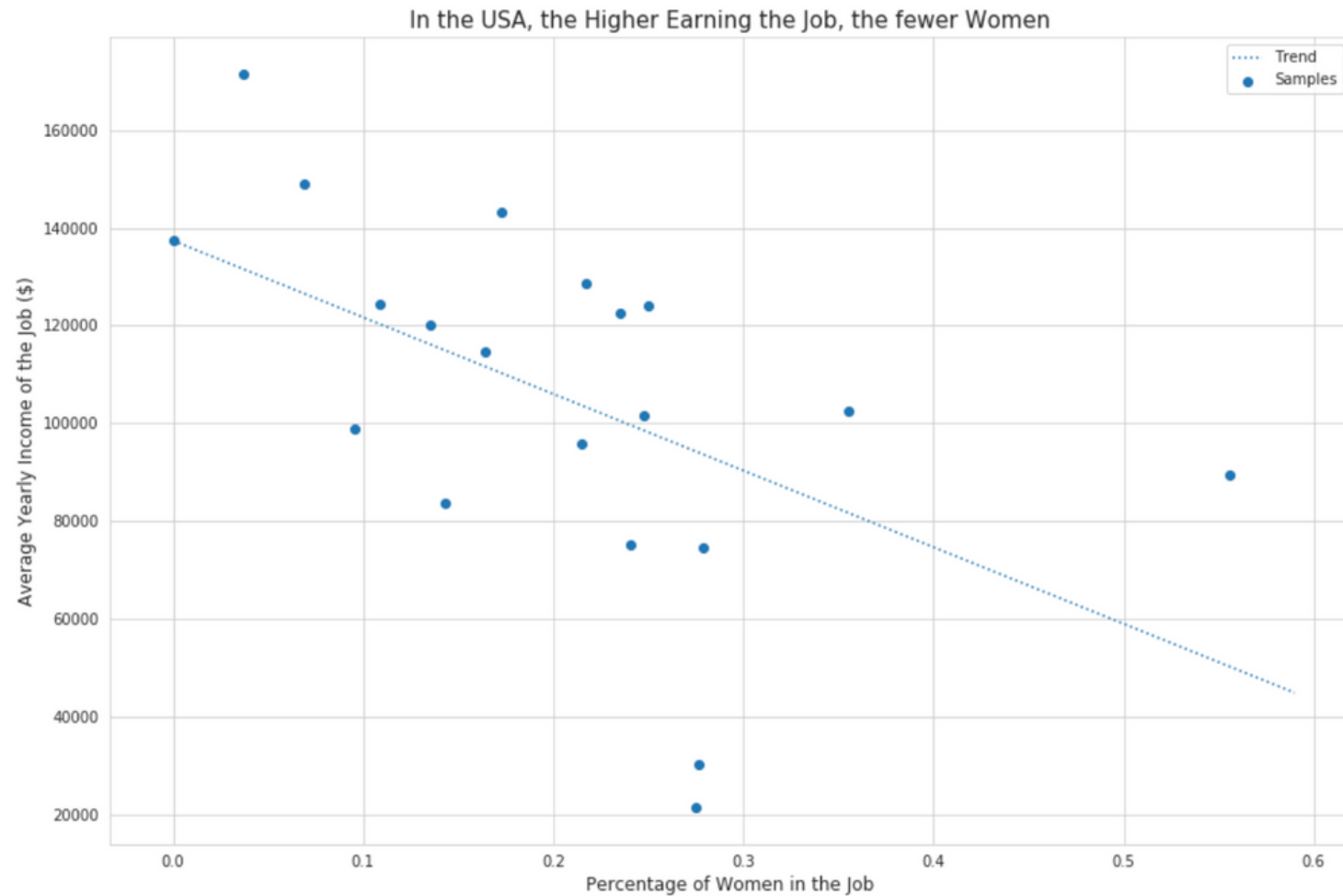
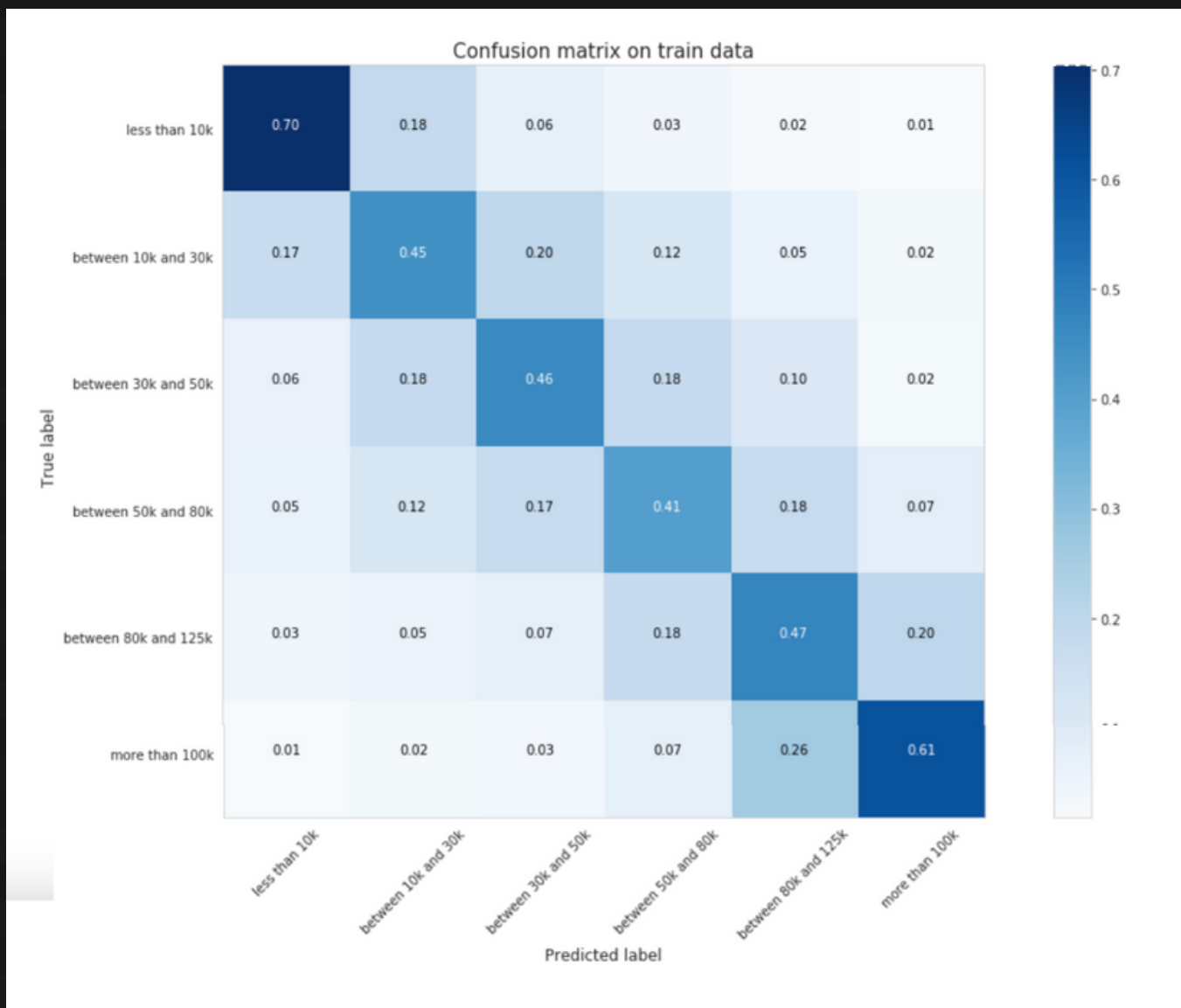
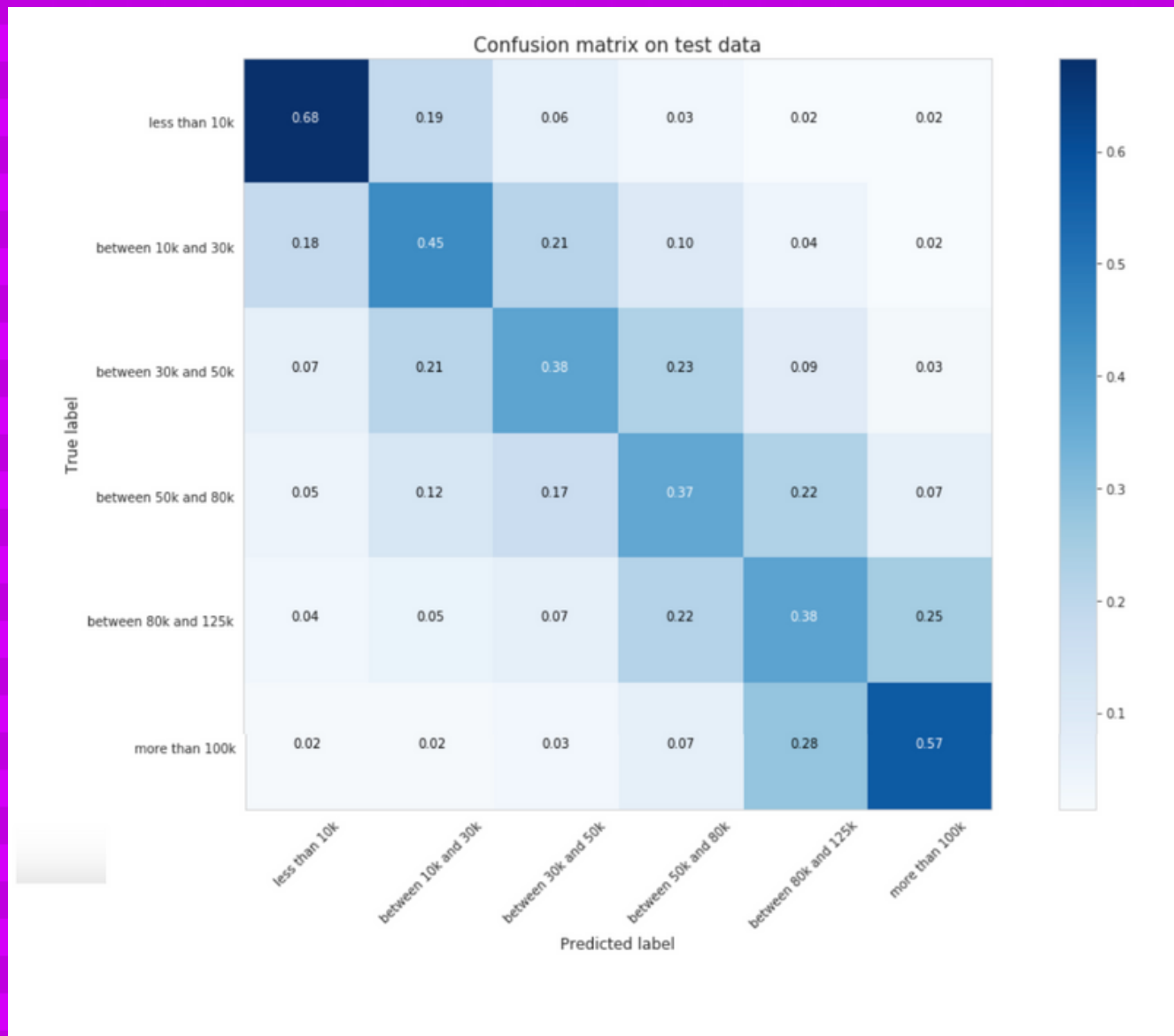


Illustration of the Gender Wage Gap for Different Professions in the USA











THANK YOU!

Berra Karayel

