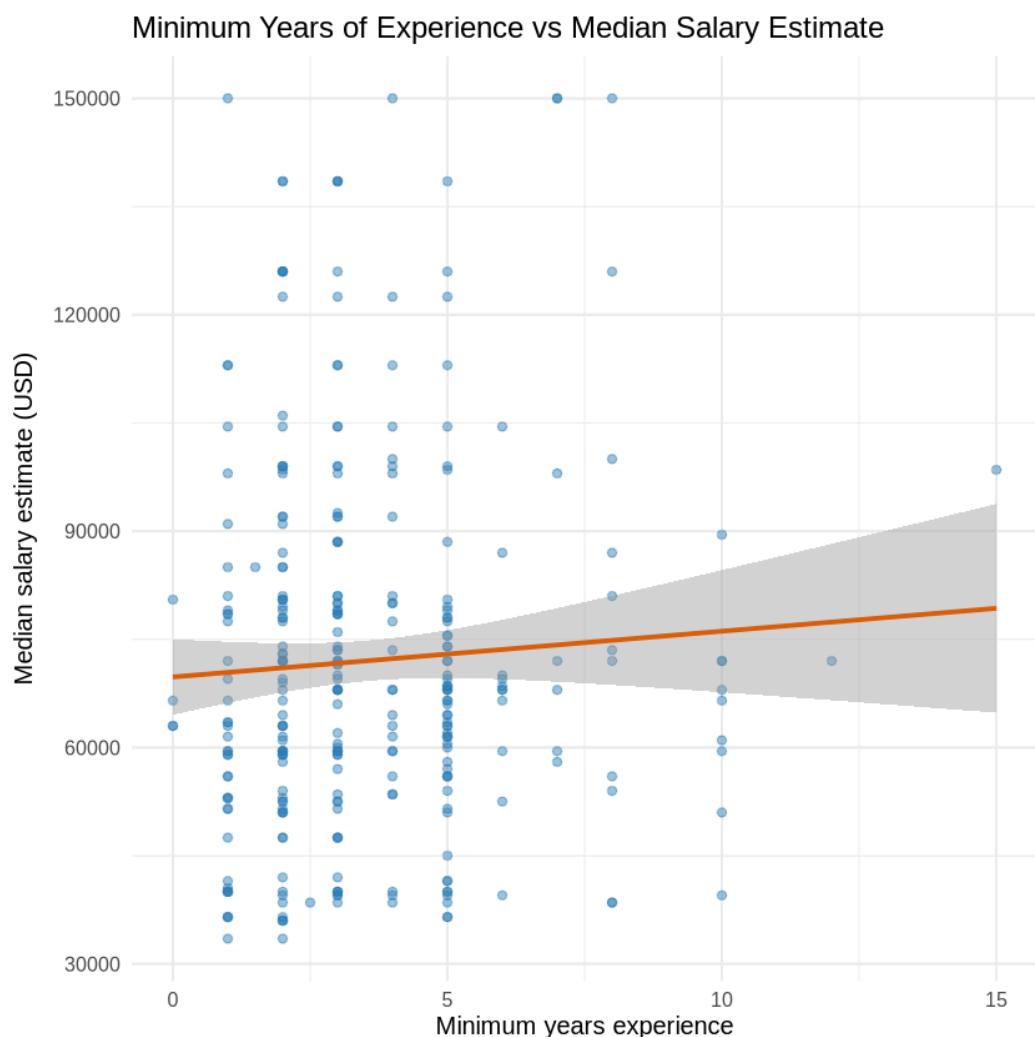


Assignment for Week 3
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Date - 4.2.2026

Introduction

This project analyzes a dataset of the job market, including fields like Median Salary Estimate (USD), Minimum Years Experience, and Data Languages requirements. Using these postings, I visualize how salary relates to required experience and how salary distributions differ by language requirement - R, Python, both, or neither.

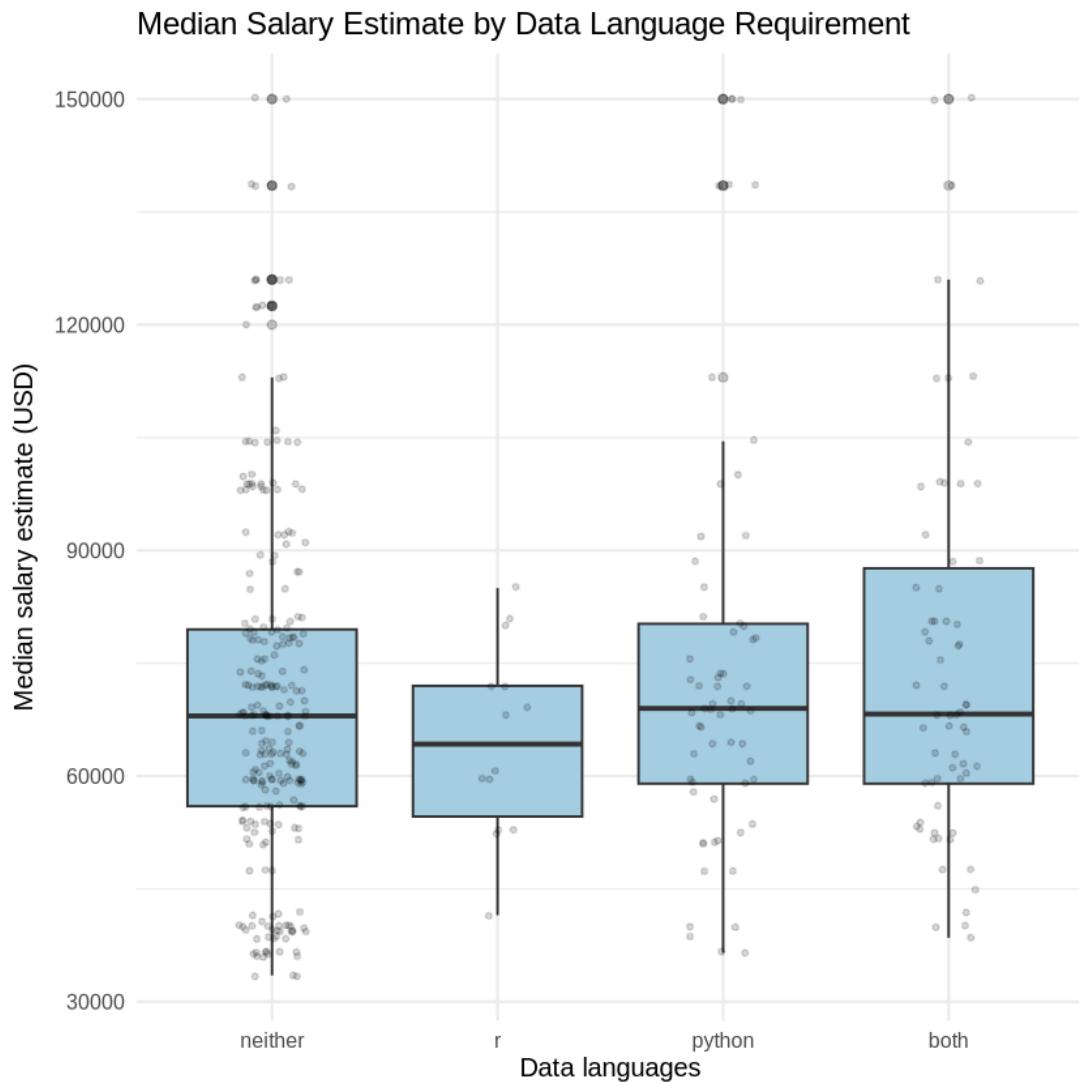
Years of Experience Analysis (plot & interpretation)



The plot shows a modest upward trend: jobs requiring more minimum years of experience generally offer higher median salary estimates. However, there's a lot of spread at each

experience level, indicating salary varies widely even among roles with similar experience requirements.

Programming Language Analysis (plot & interpretation)



The box plot suggests that salary distributions differ by language requirement: postings asking for both R and Python tend to have higher typical median salaries (higher median and upper range) than roles listing only one language or neither. There's still substantial overlap and variability within each group, meaning language requirements alone don't fully explain salary differences across postings.

AI Reflection

It is easy to use even though there are multiple steps to follow. I find it difficult to make the command for the MIGPT prompt. But if I do more practice, I will definitely overcome this issue. It is really surprising.