

Analyzing Job Market Data with LLMs in Sheets and AI Reporting Agents

George DAVIS – 2 February 2026

Introduction

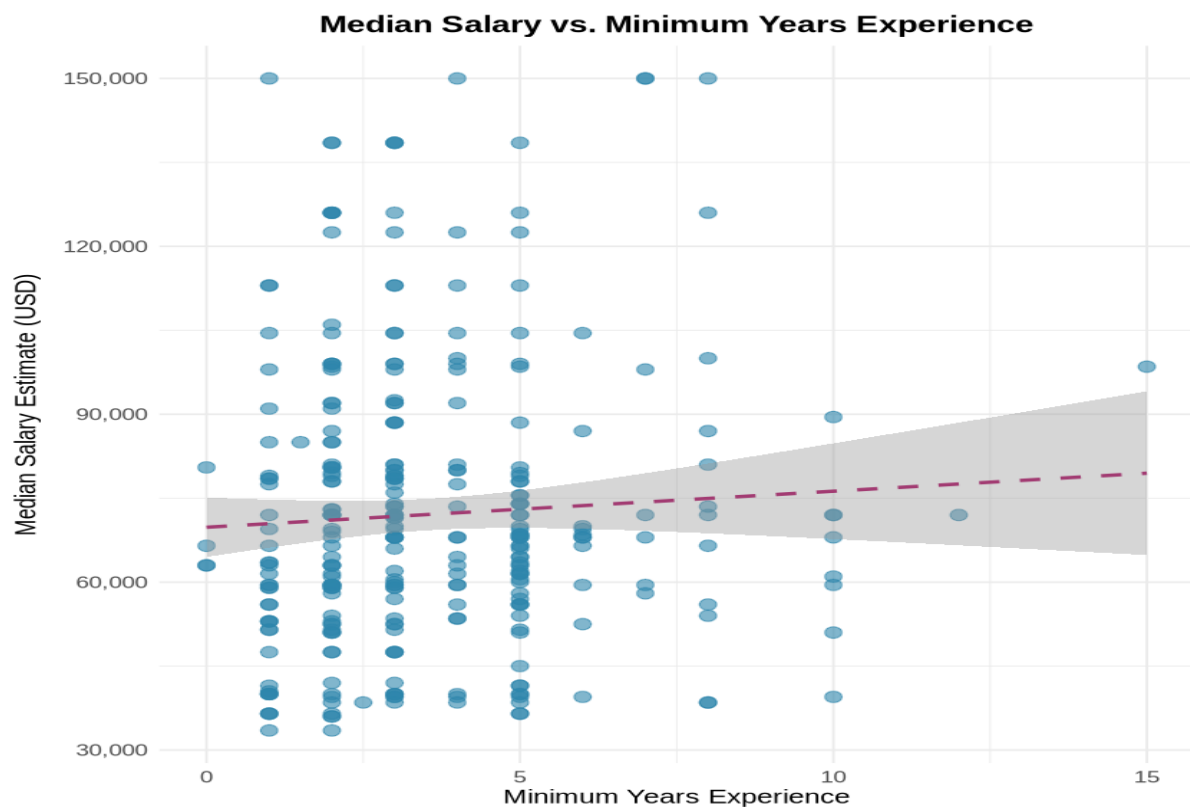
Analyzing Job Market Data with LLMs in Sheets and AI Reporting Agents

This exercise is centered around extracting information from a job description employing LLMs in Google sheets and AI reporting agents.

The Google sheet is then downloaded as excel CSV and using Julius, and a prompt, the information is then transformed into images and descriptions for a more visual representation.

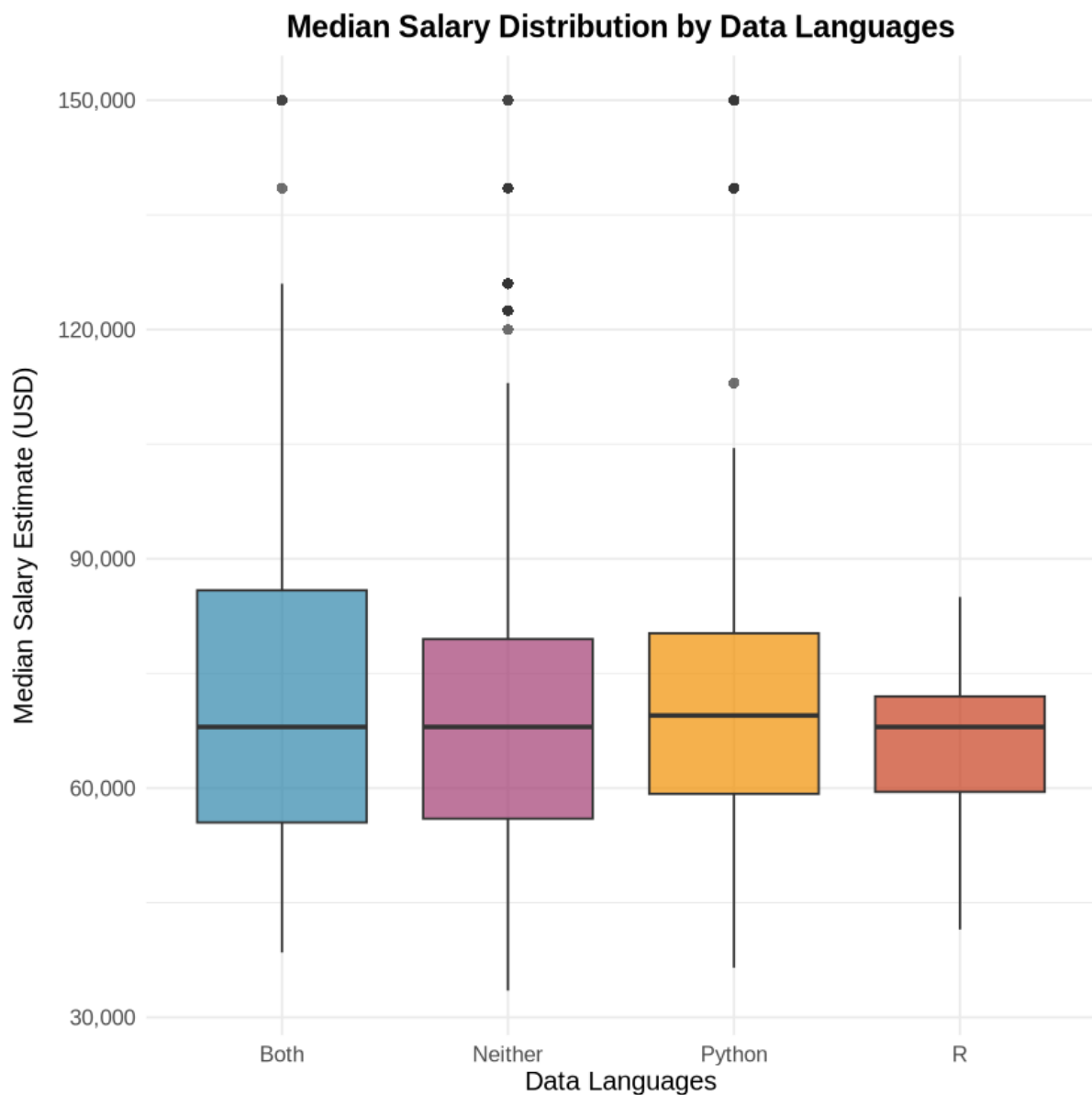
Scatter Plot: Experience vs. Salary

Years of experience analysis using the scatter plot representation.



This scatter plot shows the relationship between minimum years of experience and median salary estimates. The plot includes 308 data points (jobs with valid experience data) and a linear regression line to show the trend. There appears to be a positive correlation between experience and salary.

Box Plot: Salary by Data Languages



This box plot compares median salary distributions across different data language requirements:

Both (R and Python): 64 jobs

Neither: 256 jobs

Python: 67 jobs

R: 13 jobs

The box plot shows the median, quartiles, and outliers for each category, making it easy to compare salary distributions across different language requirements.

My reflections

This is my first time doing serious work like data analysis using LLMs. I have been using LLMs more for refining my CV and at times cover letters, but this is another level where I can do interesting things with this tool.

The exercises are getting a little technical, I think, but the pre-work and live workshop helps a lot.

Great to use in business applications.