

Job Posting Analysis

Your career envision? We have them all visualized here.

Team 8



A photograph of a man with dark hair and glasses, wearing a white shirt. He is sitting at a desk, looking down at a white laptop screen with a worried expression. His hands are resting on his head, with one hand holding a pen. The background shows a blurred office environment with bookshelves.

Are You an Anxious Job Seeker?



Agenda

- ▶ Data Set
- ▶ Visualization
 - ▶ Locations
 - ▶ Sectors & Industries
 - ▶ Qualification & Skills
 - ▶ Salary
- ▶ Predictive Modeling



About the Data Set

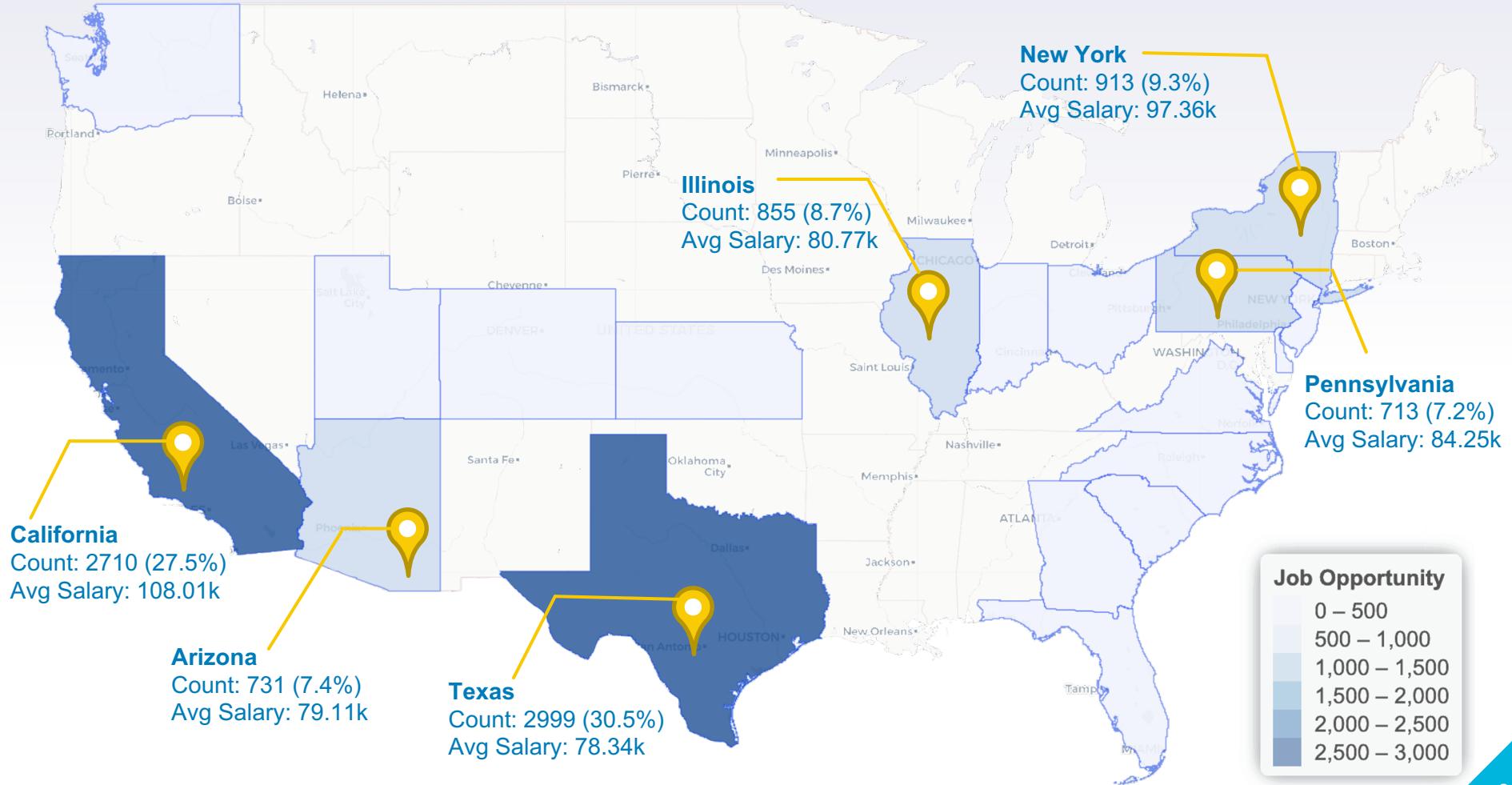


- Data originally scrapped from Indeed Website
- Data structure : 10000 Observations and 30 Variables
- All job offers located in the US

Locations

Where do you imagine yourself working?





IT Services

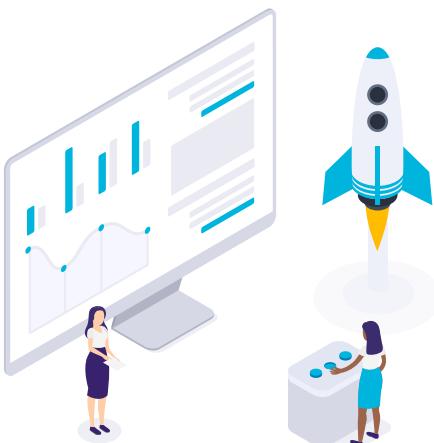
Main Industry

The top 6 states with over 500 job opportunities each in the United States are dominated by IT Services





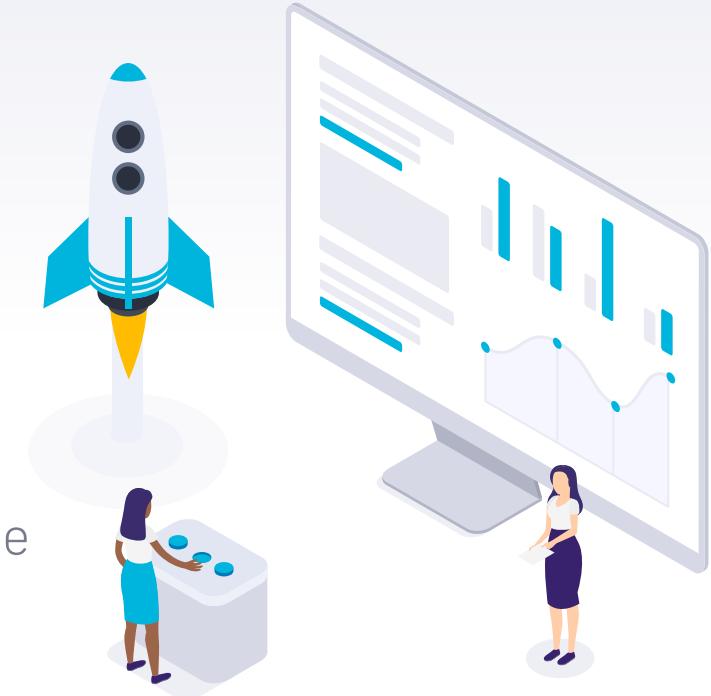
Three Counties with 700+ Job Opportunities



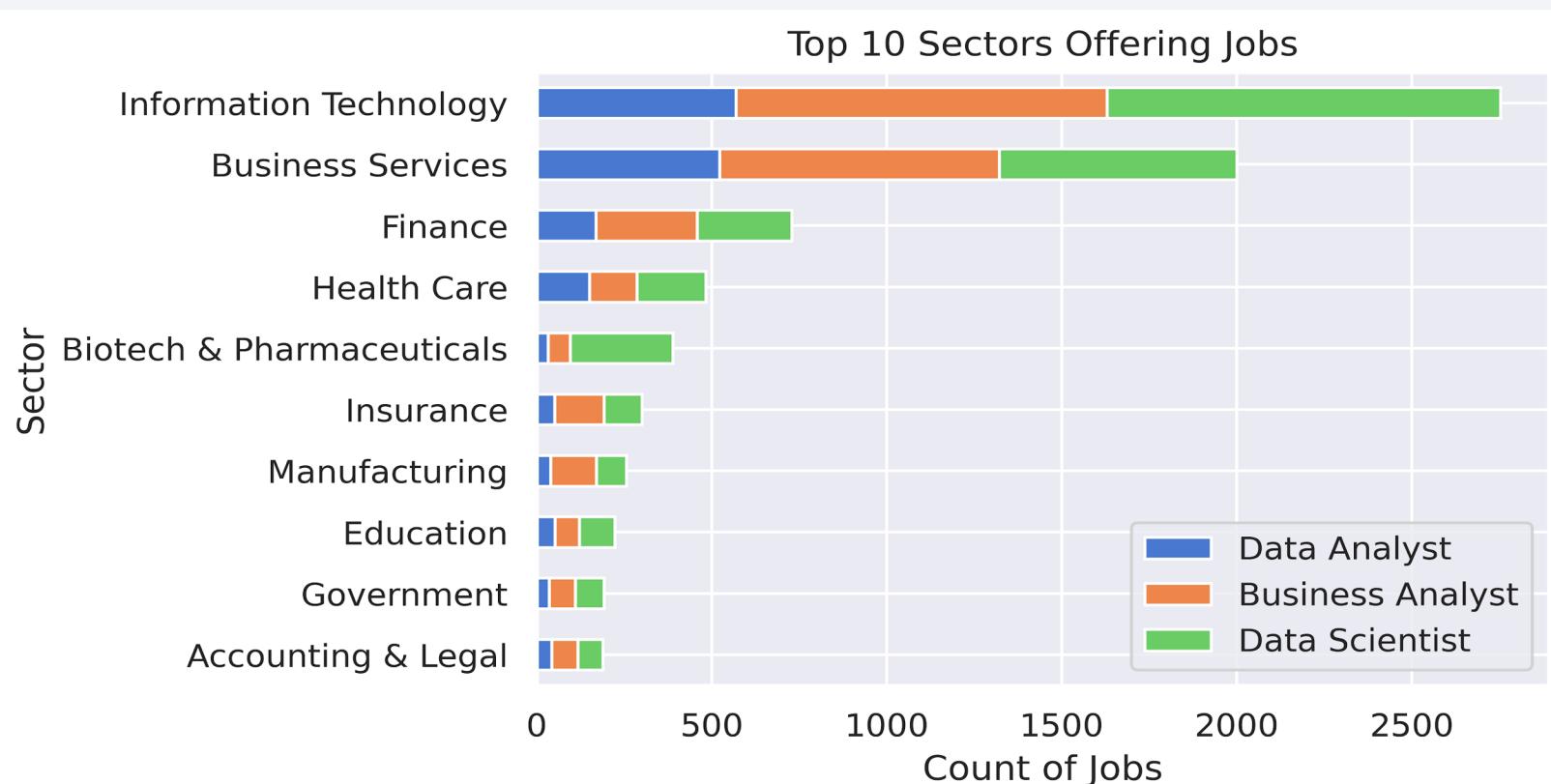
	Open Position	Average Salary (Dollars/Year)	Industry
Los Angeles	868 (32%) 	102.35 k 	IT Services
Santa Clara	701(26%)	129.35 k	IT Services
San Diego	749 (28%)	92.30 k	Biotech & Pharmaceuticals

Sectors & Industries

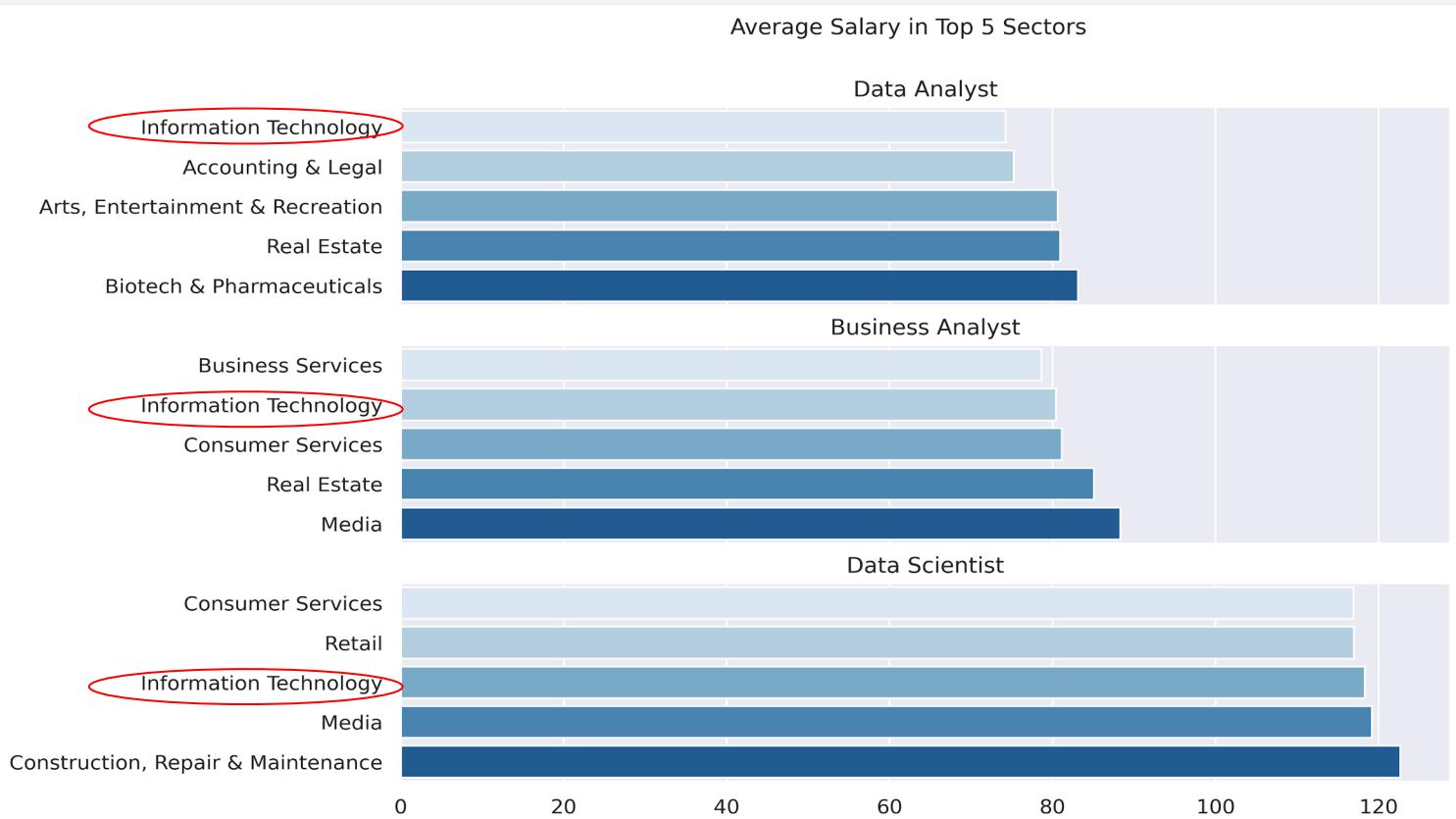
Which sector or industry do you imagine yourself working?



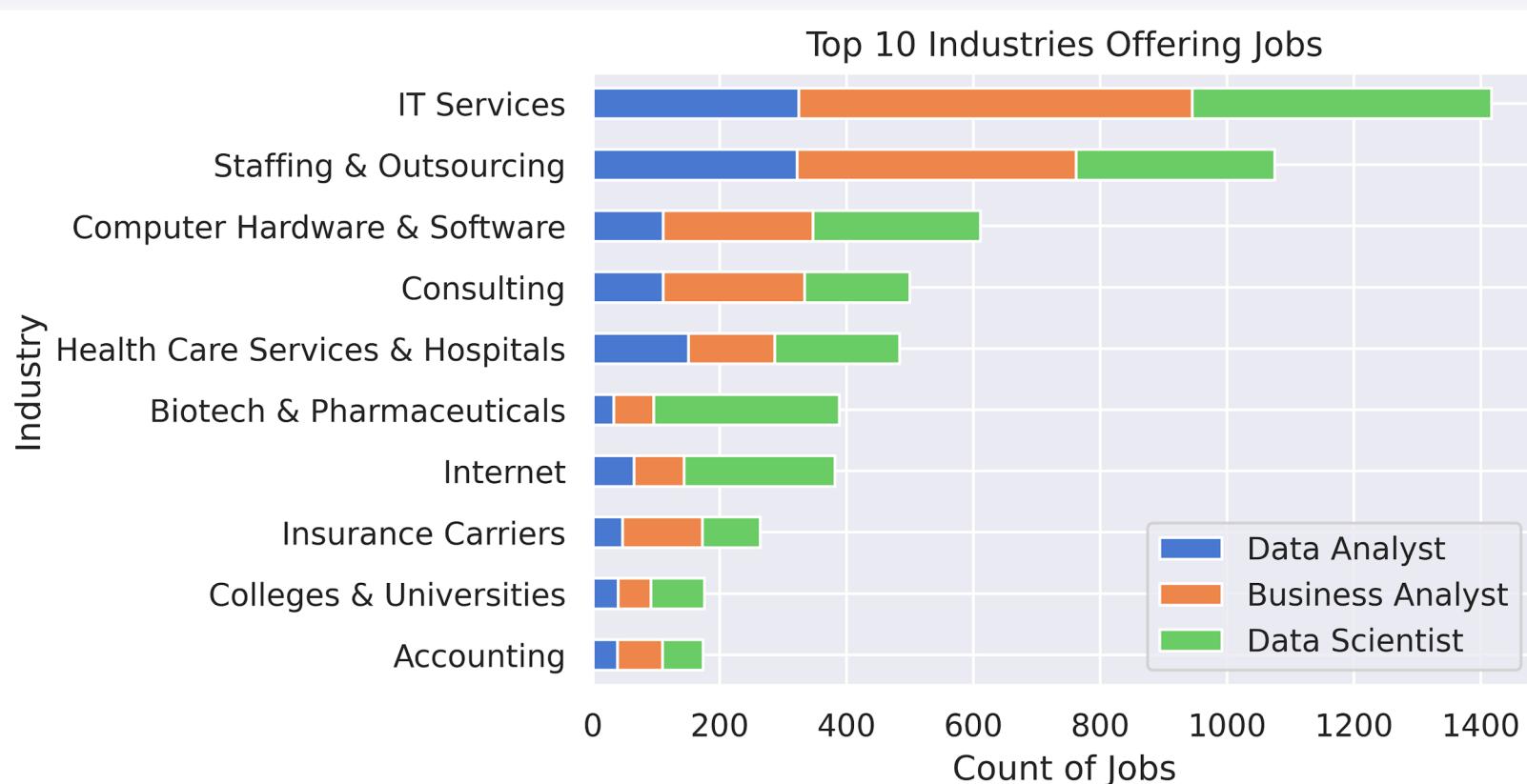
Top 10 Sectors Offering Jobs



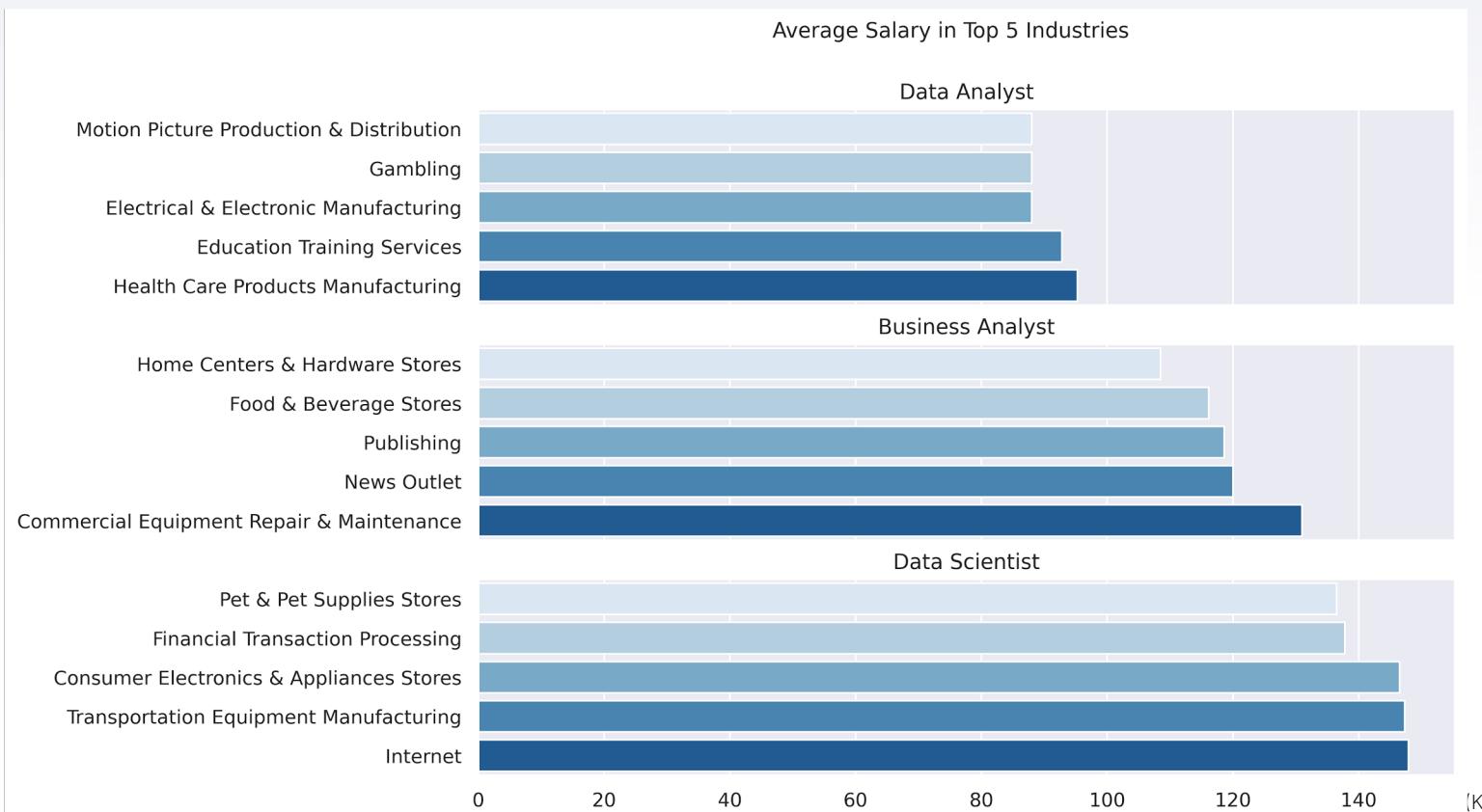
Average Salary in Top5 Sectors



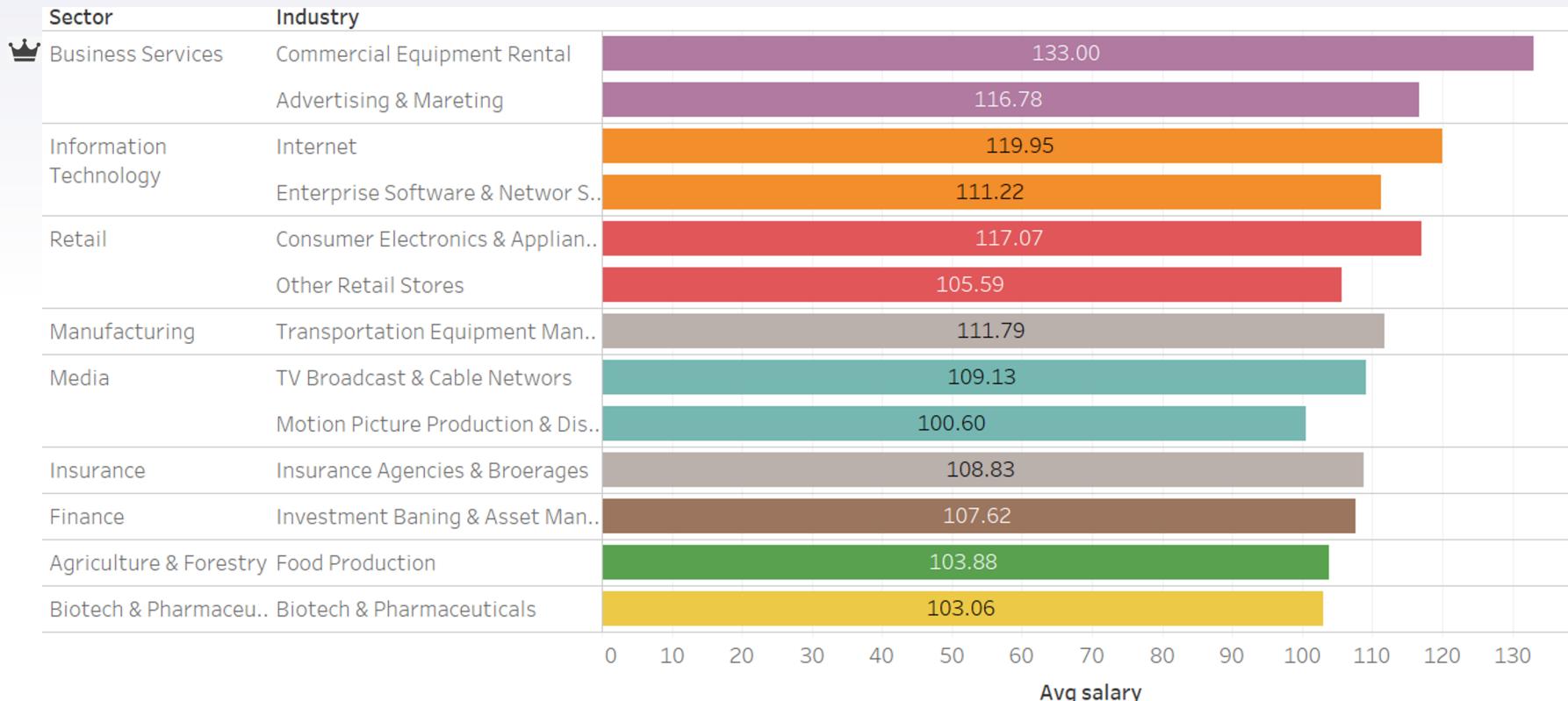
Top 10 Industries Offering Jobs



Average Salary in Top5 Industries

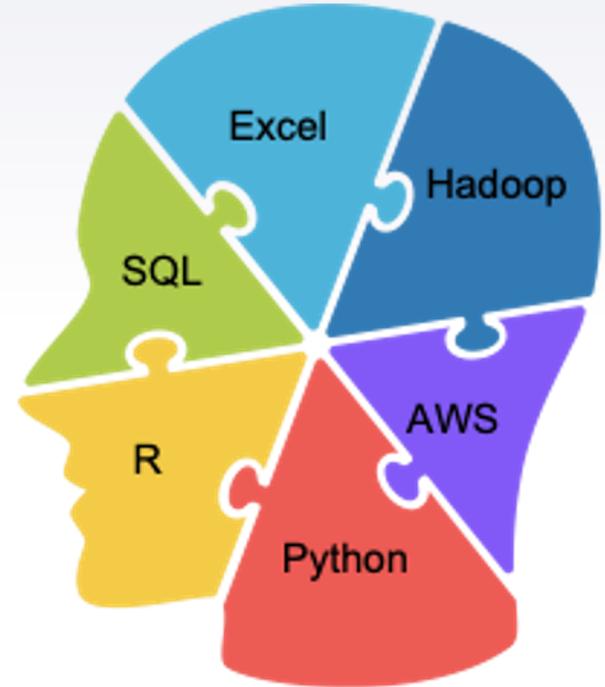


Average Salary vs Sector-Industry



Qualifications & Skills

What skills do employers look for most often?



Top 3 Wanted Skills

71.19%

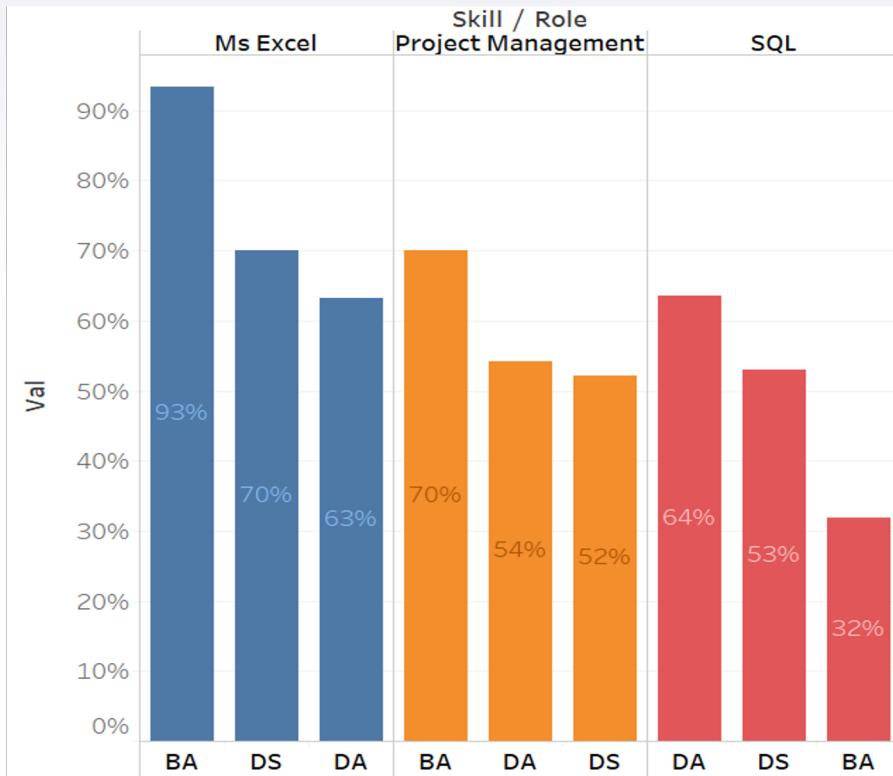
Ms Excel

54.23%

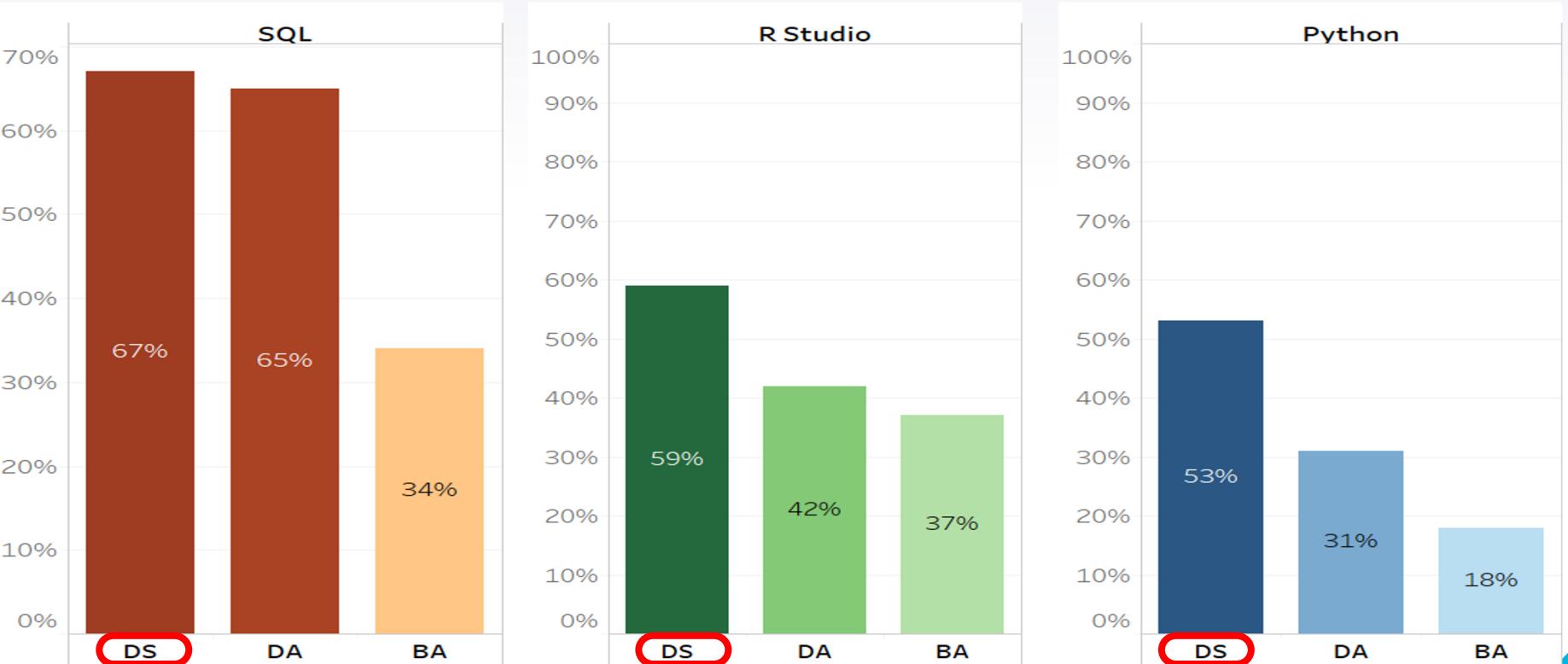
Project Management

43.47%

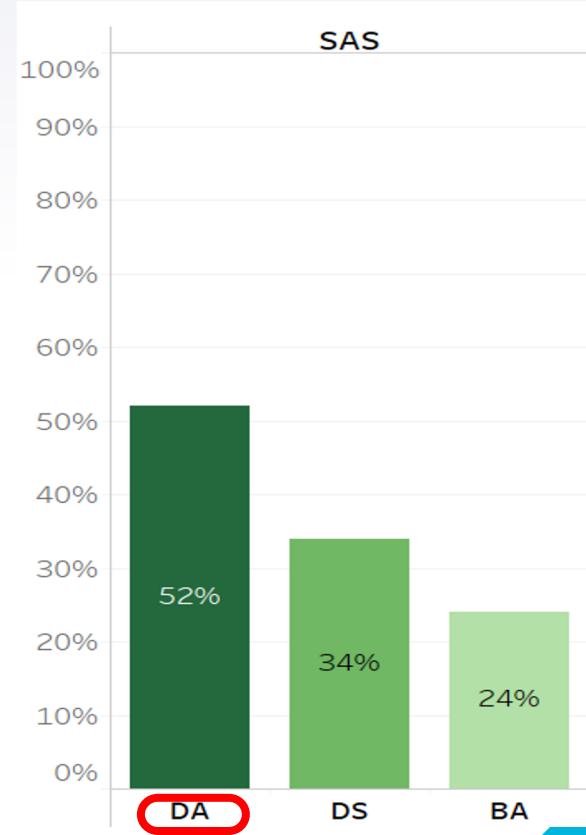
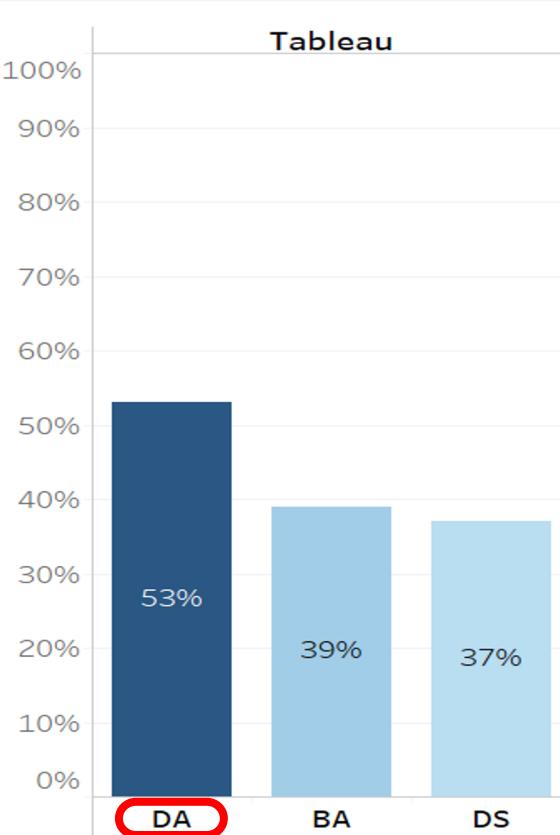
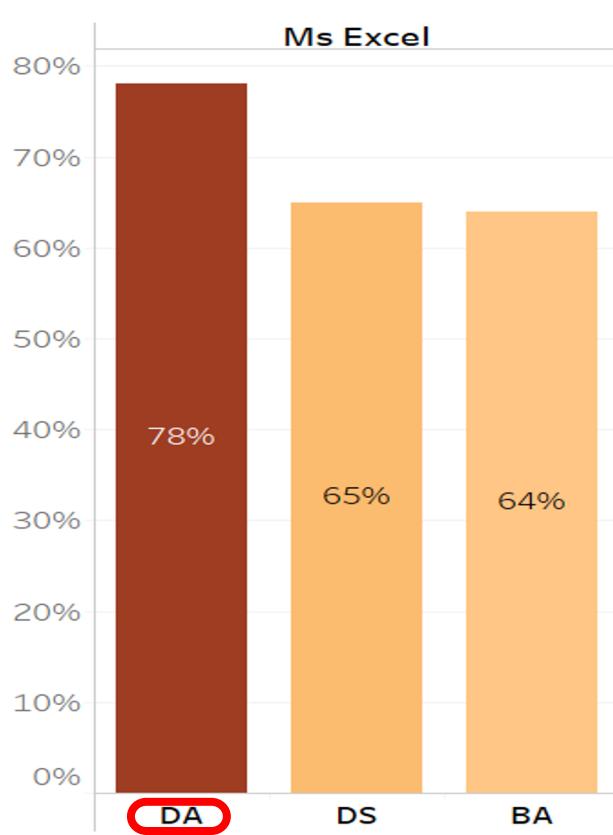
SQL



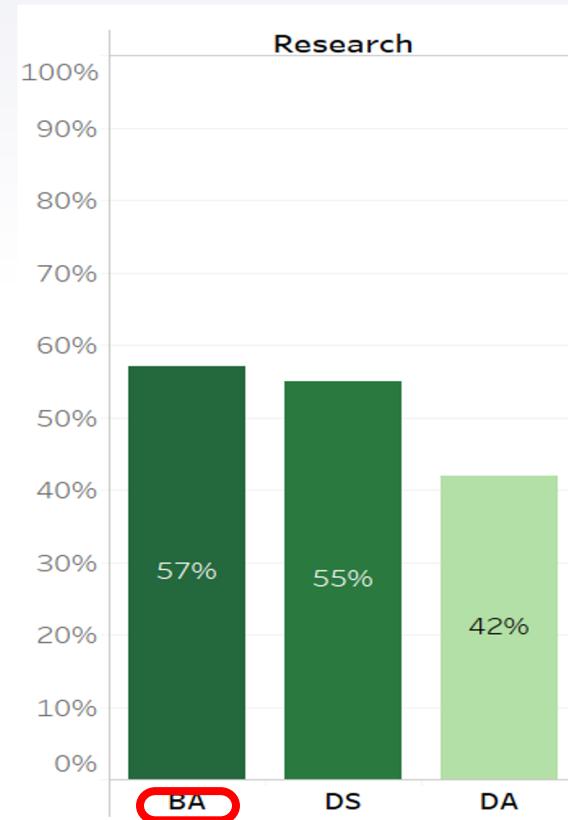
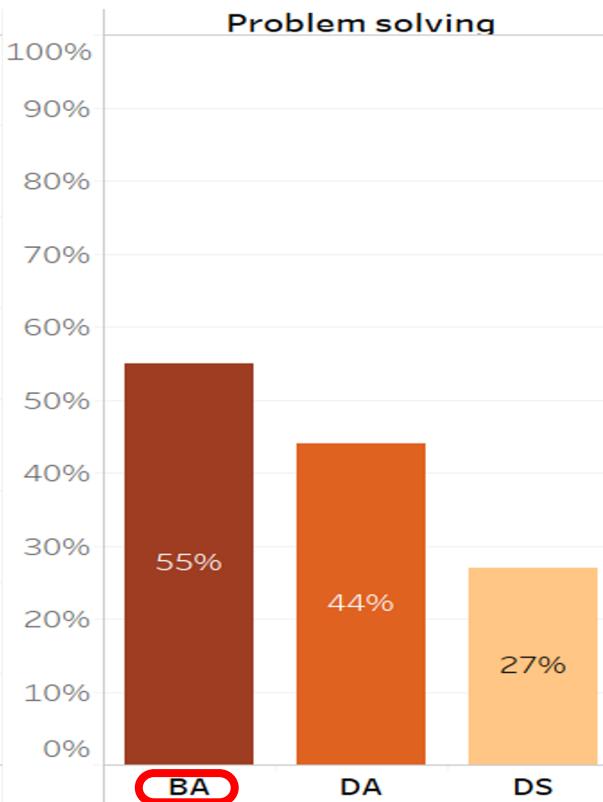
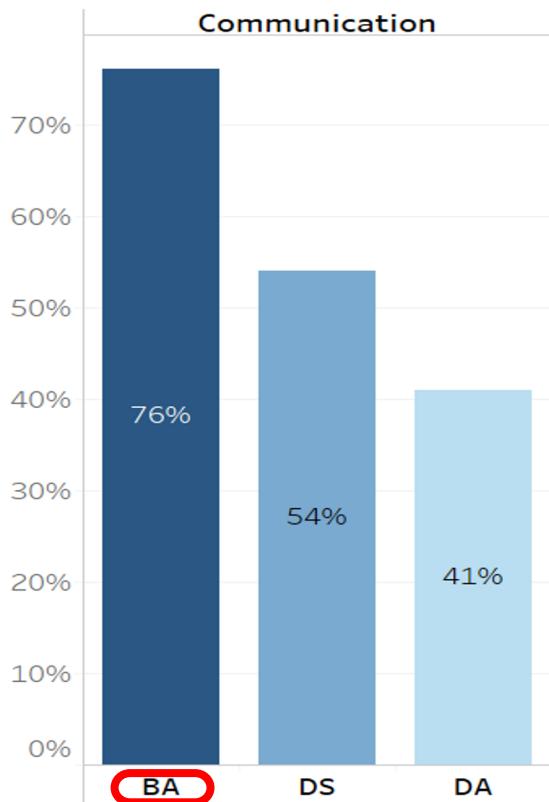
Programming Skills



Analytic Tools



► Interpersonal Skills



Salary

How much money are you expecting to earn?



► Want to go above & beyond?

Data Analyst

\$74.8 k/year



Business Analyst

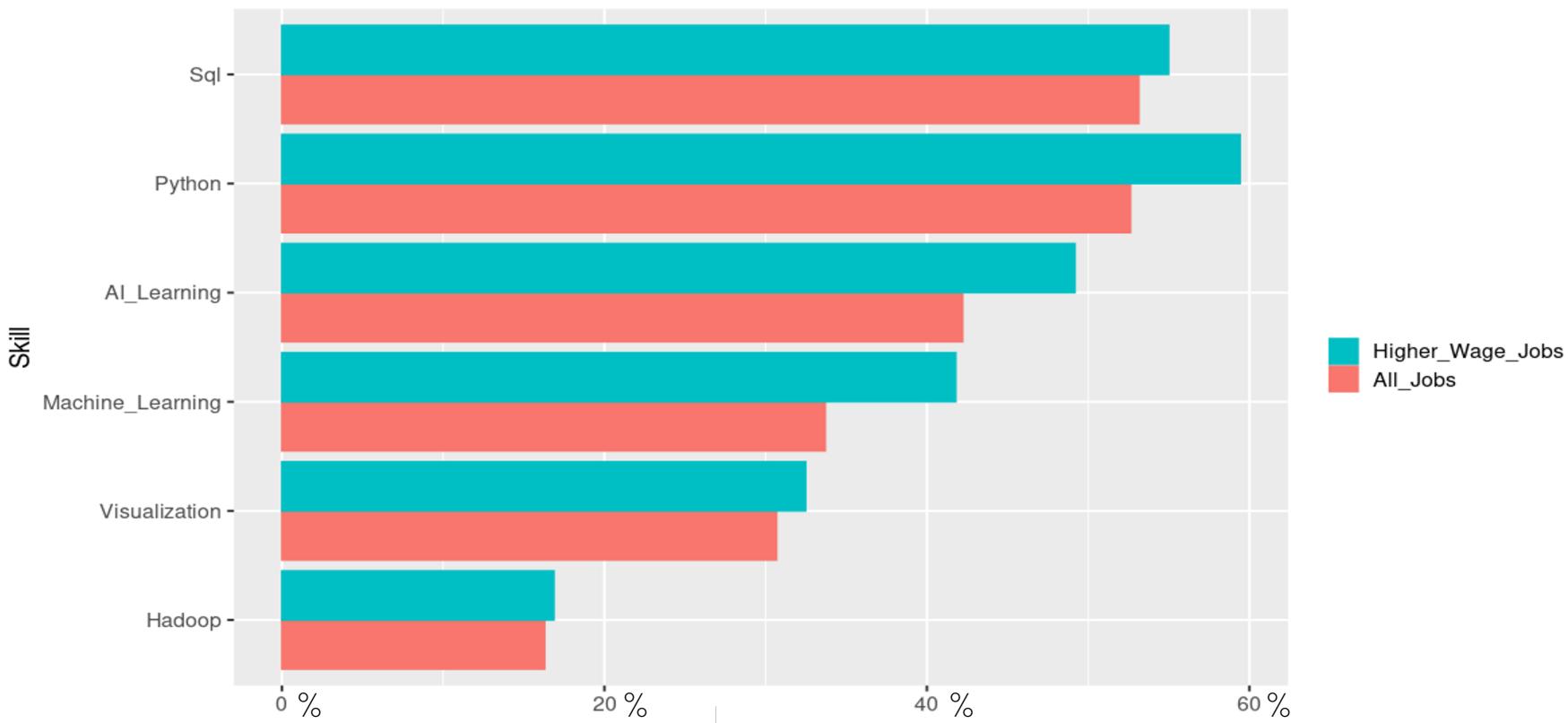
\$80.7 k/year

Data Scientist

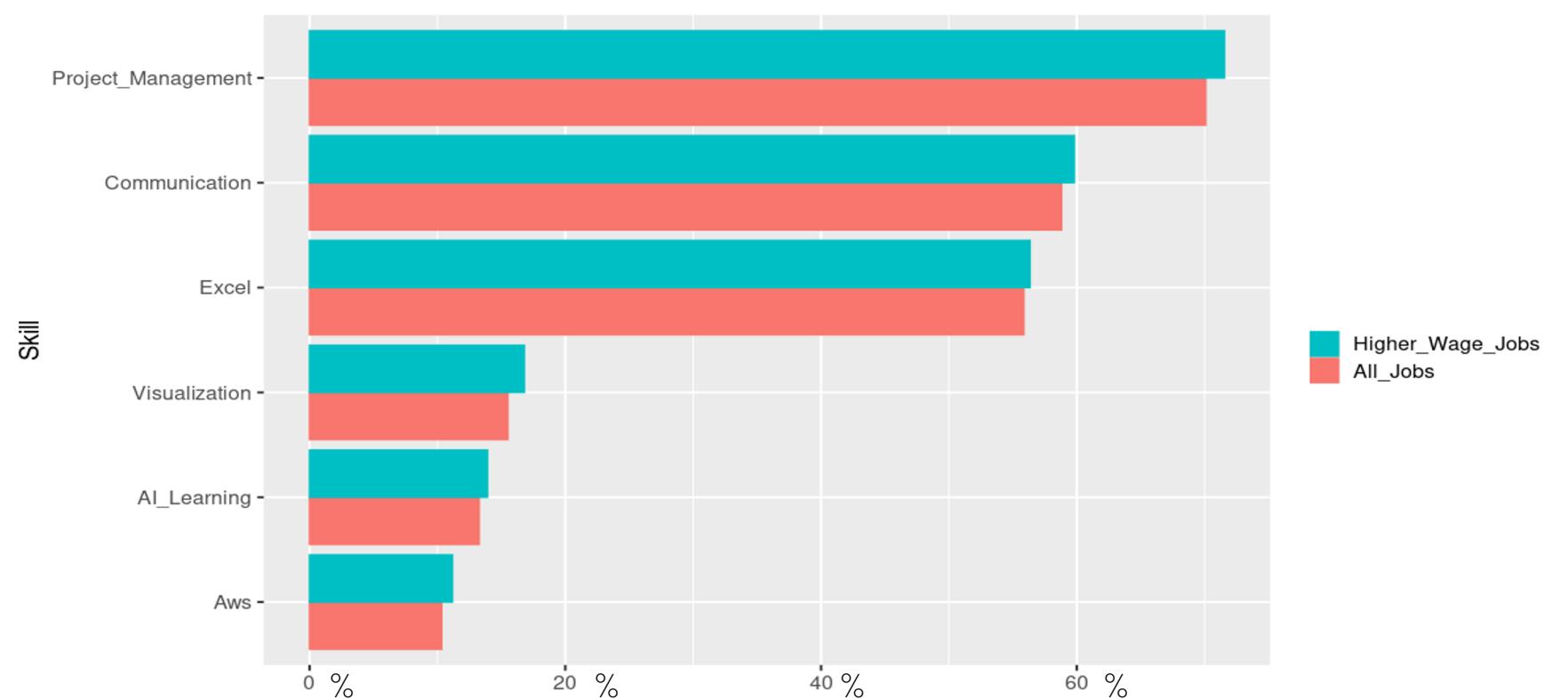
\$113.0 k/year



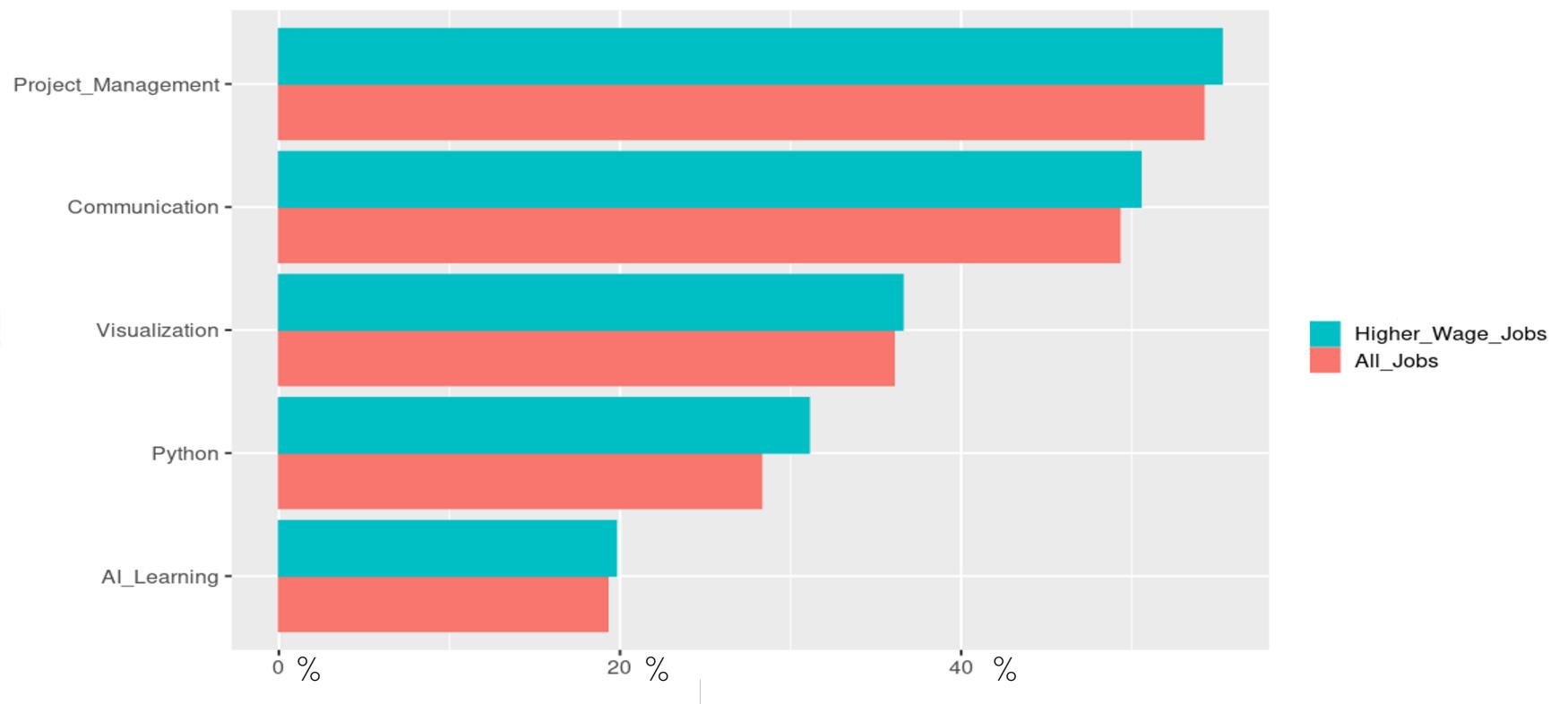
As a Data Scientist



As a Business Analyst



As a Data Analyst

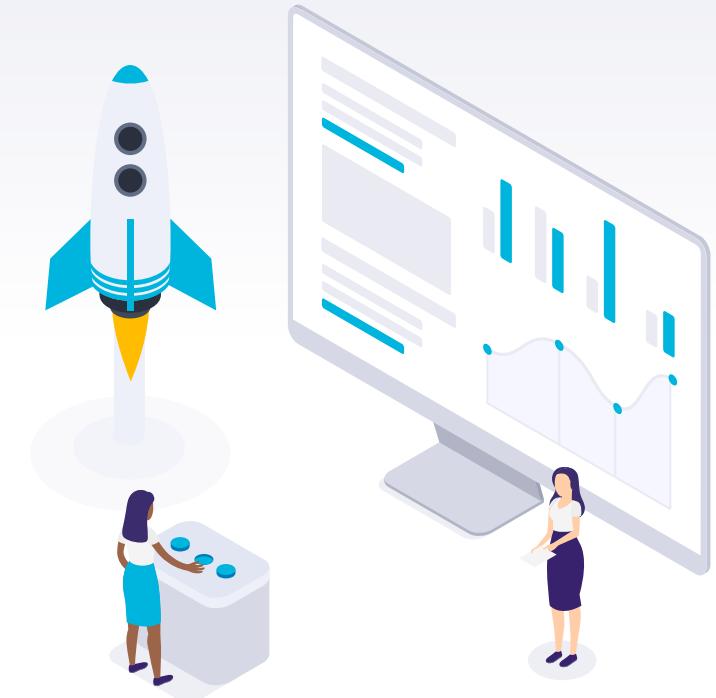


What helps you earn more?



	Python	Visualization 	AI Learning 	Communication	Project Management
Data Scientist					
Business Analyst					
Data Analyst					

Predictive Model



Model Design

- ▶ **Predicted variable:** Annual Salary
- ▶ **Feature variables:** Analytics Specific Skills, Company Features
- ▶ **Goal:** Minimize MSE
- ▶ **Models:** Linear, Ridge, Lasso

Jayden

Title: Data Scientist

Skills: Python, SQL, Database Management

Industry: Information Technology

Revenue: \$10 billion +

Others: Stableness



Predicted Annual Salary

\$88,786

Nancy

Title: Business Analyst

Skills: Excel, Python, Project Management

Industry: Biotech

Revenue: < \$100 million

Others: Seniority



Predicted Annual Salary

\$97,810

Conclusion

- ▶ Summary
 - Location: California & Texas
 - Sector: IT & Business Services
- ▶ Recommendations
 - Data Scientist: Programming skills
 - Business Analyst: Soft skills
 - Data Analyst: Analytics tools
- ▶ A world of Data Analytics awaits!

THANKS!

Any questions?

