# Client Requirements for Data Science Job Analytics

## Objective

The goal is to perform comprehensive analytics on a dataset of data science job postings to gain actionable insights into the industry trends, workforce demographics, and skill demands.

## Scope of Analysis

### Salary Analysis

• Determine the average, median, and range of salaries by:  
 - Job Title  
 - Location  
 - Industry  
• Identify high-paying job roles and locations.

### Skill Demand

• List the most in-demand skills in the data science field.  
• Analyze how skill requirements vary across:  
 - Industries  
 - Job Titles

### Experience-Level Insights

• Analyze the distribution of jobs by experience level (Junior, Mid-Level, Senior).  
• Correlate salary levels with experience requirements.

### Location-Based Insights

• Identify top cities for data science job opportunities.  
• Compare salaries and job availability by location.

### Industry Trends

• Assess which industries are hiring the most for data science roles.  
• Analyze salary trends within different industries.

### Diversity Analysis

• Study gender distribution across job roles and industries.  
• Identify potential diversity gaps.

### Job Posting Trends

• Analyze job posting patterns over time to identify peak hiring periods.  
• Study hiring status (open vs. closed) trends.

### Educational Requirements

• Evaluate the most common degree requirements for various roles.  
• Analyze if certain degrees are associated with higher salaries.

### Work Environment

• Assess trends in remote work options across industries and roles.  
• Compare salaries and job satisfaction metrics for remote vs. on-site roles.

## Deliverables

1. Detailed reports with:  
 - Summary statistics  
 - Insights and findings  
 - Graphical representations (charts, graphs, and maps)  
2. Interactive dashboards using tools like Tableau or Power BI.  
3. Recommendations based on findings.