## **Hiring Process Analytics**

### **Project Description**

The objective of this project was to analyze hiring process data to extract meaningful insights, identify trends, and present results through effective data visualization. The primary goals were to assess salary distribution, department-wise hiring patterns, and position tiers while handling large datasets. This project aimed to provide a comprehensive overview of recruitment statistics and improve understanding of hiring dynamics through data-driven approaches.

#### **Project**

 $https://docs.google.com/spreadsheets/d/10w03u0jwg2I1T6UKzcKajH54EnvLM\_kd/edit?usp=sharing\&ouid=106518165676834505057\&rtpof=true\&sd=true\\$ 

## **Approach**

The project was executed using a structured, step-by-step data analysis approach:

## 1. Data Cleaning and Preparation:

- o Handled missing values and ensured data consistency for all relevant columns.
- o Grouped salary values into defined intervals (e.g., 0-20k, 20k-40k) using Excel functions such as FLOOR and calculated lower and upper bounds for these intervals.

# 2. Frequency Analysis:

 Used COUNTIFS to calculate the frequency of salaries within defined ranges to create a frequency table.

## 3. Visualization:

 Developed histograms, bar charts, and pie charts to illustrate the salary distribution, department-wise employee proportions, and position tier distribution.

#### 4. Departmental Analysis:

 Created a Pivot Table to count the number of employees in each department and visualized the results using a pie chart to highlight proportions of people working in different departments.

## 5. **Position Tier Analysis**:

o Visualized position distributions using column charts.

By following these steps, I systematically analyzed and visualized data for actionable insights.

#### **Tech-Stack Used**

### • Microsoft Excel 2022:

o **Data Cleaning**: Addressing missing values, grouping data.

- Formulas: FLOOR, COUNTIFS, and logical functions for efficient data categorization and frequency analysis.
- o **Pivot Tables**: Summarizing and visualizing department and position tier data.
- Visualization Tools: Creating histograms, bar charts, and pie charts for clear data presentation.

Microsoft Excel 2022 was chosen due to its robust data processing capabilities, user-friendly interface, and visualization features.

# **Insights**

# 1. Salary Distribution:

- The majority of offered salaries were concentrated in mid-range intervals (20k-40k and 40k-60k), indicating a standard range for most hires.
- Higher salary brackets (>200k) had significantly fewer hires, highlighting a smaller pool of high-paying roles.

## 2. Departmental Hiring Trends:

- Service and Operations Departments employed the highest number of hires, reflecting their importance in the organization.
- o Other departments like Sales and Finance had comparatively fewer employees.

# 3. Position Tier Analysis:

A balanced distribution across junior and mid-level roles was observed, with senior-level roles forming a smaller proportion, emphasizing the organizational hierarchy.

### 4. Overall Hiring Pattern:

 The data revealed consistent hiring patterns, with no significant anomalies, providing a reliable foundation for recruitment planning.

### Result

This project successfully analyzed the hiring process data, providing actionable insights into salary distribution, departmental workforce proportions, and job roles. The use of visualizations helped convey complex data trends effectively. Key findings included the identification of salary concentration in mid-range intervals, the dominance of certain departments in hiring, and a tier-based job role distribution.

Through this project, a deeper understanding of hiring analytics was gained, demonstrating the importance of data-driven approaches in improving recruitment strategies and workforce planning. This analysis can guide future decision-making in resource allocation, compensation planning, and talent acquisition.