

# Hiring Process Analytics

## Project Description

A company's hiring procedure is its most crucial operation. The employment process's tendencies are disclosed to MNCs. A corporation should analyze trends before employing a fresh graduate or anybody else, including the number of rejections, interviews, sorts of employment, openings, experience, etc.

## Approach

- Download all Data provided
- Understanding the data
- Checking for outliers
- Removing outliers
- Drawing Data Summary

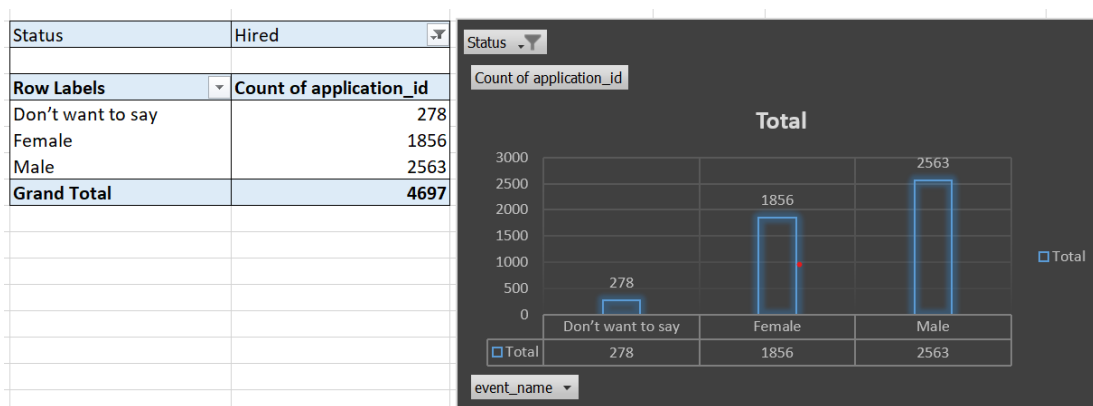
## Tech-Stack Used

Microsoft Excel (2021)

## Tasks:

**A. Hiring Analysis:** The hiring process involves bringing new individuals into the organization for various roles.

**Your Task:** Determine the gender distribution of hires. How many males and females have been hired by the company?



## Insights:

- Just 39.51% of the hired applicants are female, with over half being men. The other people have not revealed their gender. An organization's reputation in the public realm may suffer from a high gender ratio (the ratio of male to female). Thus, the organization should concentrate on lowering the gender ratio and getting it as near to one as possible.
- The analysis process may be hampered by missing or irrelevant data, thus the data quality team should make sure the data is comprehensive and relevant.

**B. Salary Analysis:** The average salary is calculated by adding up the salaries of a group of employees and then dividing the total by the number of employees.

**Your Task:** What is the average salary offered by this company? Use Excel functions to calculate this.

C28    ✕   ✓ <i>fx</i> =AVERAGEIF(Sheet1!C2:C7169,"Hired",Sheet1!G2:G7169)						
A	B	C	D	E	F	G
24	<b>B. Salary Analysis:</b> The average salary is calculated by adding up the salaries of a group of employees and then dividing the total by the number of employees.					
25	<b>Task:</b> What is the average salary offered by this company? Use Excel functions to calculate this.					
26						
27	Average Offered Salary:	49878.86482				
28	Average Salary of Hired Candidates:	49594.90888				
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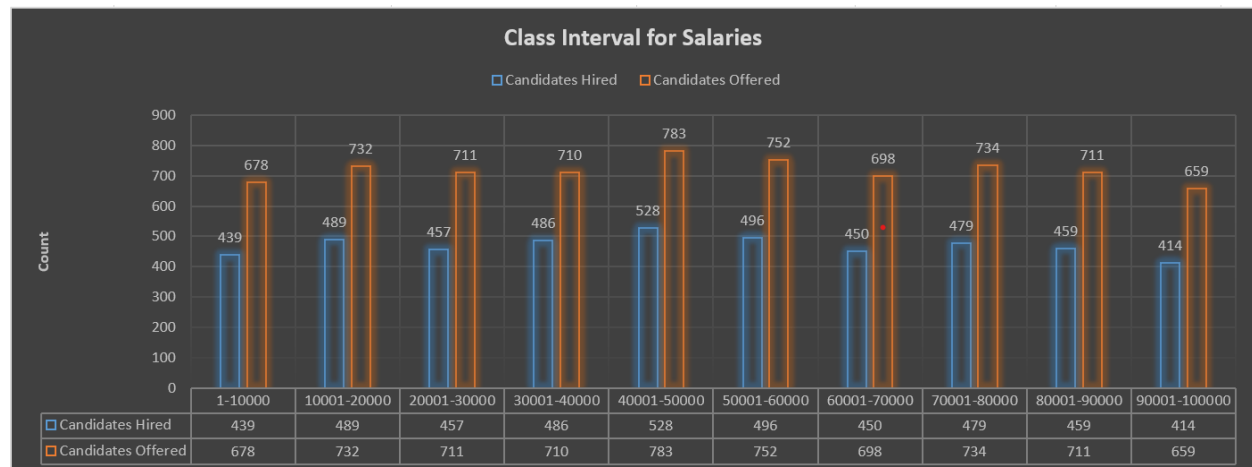
## Insights:

- The average salary that was offered was 49878.86 in currency, while the average salary that hired candidates received was 49594.91 in currency. The offered salary and the average salary of hired candidates are nearly equal. This demonstrates that the hiring staff is selecting applicants based on the organization's predetermined wage bands.

**C. Salary Distribution:** Class intervals represent ranges of values, in this case, salary ranges. The class interval is the difference between the upper and lower limits of a class.

**Your Task:** Create class intervals for the salaries in the company. This will help you understand the salary distribution.

Count of applications	Column Labels								
Row Labels	Hired	Rejected	Grand Total		Salary Class	Hired	Rejected	Grand Total	Salary Class
1-10000	439	239	678		1-10000	439	239	678	1-10000
10001-20000	489	243	732		10001-20000	489	243	732	10001-20000
20001-30000	457	254	711		20001-30000	457	254	711	20001-30000
30001-40000	486	224	710		30001-40000	486	224	710	30001-40000
40001-50000	528	255	783		40001-50000	528	255	783	40001-50000
50001-60000	496	256	752		50001-60000	496	256	752	50001-60000
60001-70000	450	248	698		60001-70000	450	248	698	60001-70000
70001-80000	479	255	734		70001-80000	479	255	734	70001-80000
80001-90000	459	252	711		80001-90000	459	252	711	80001-90000
90001-100000	414	245	659		90001-100000	414	245	659	90001-100000
Grand Total	4697	2471	7168						



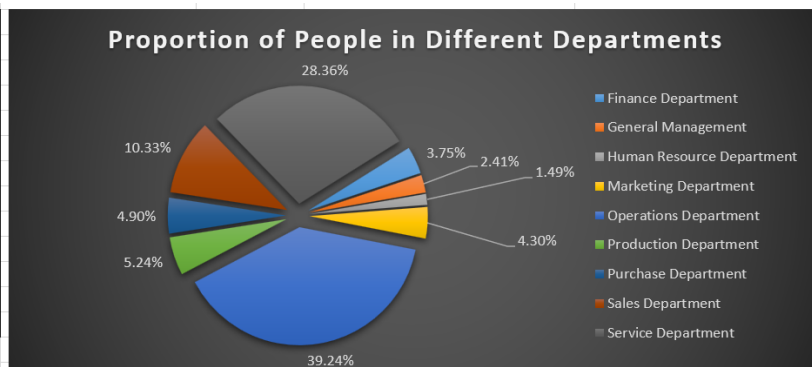
## Insights:

- The highest pay provided falls within the range of Currency-Unit 40001–50000, whilst the lowest income offered falls within the range of Currency-Unit 90001–100000 and Currency-Unit 1–10000. This means that assuming that pay is directly correlated with work experience, the majority of the requirements for entry-level positions and senior positions had the least amount of experience.
- We can also see that assuming that pay is directly correlated with work experience, the majority of applicants are hired for positions requiring moderate experience, while the least number of candidates are hired for senior positions and new graduates.

**D. Departmental Analysis:** Visualizing data through charts and plots is a crucial part of data analysis.

**Your Task:** Use a pie chart, bar graph, or any other suitable visualization to show the proportion of people working in different departments.

Status	Hired
Department	Dept. wise Proportion
Finance Department	3.75%
General Management	2.41%
Human Resource Department	1.49%
Marketing Department	4.30%
Operations Department	39.24%
Production Department	5.24%
Purchase Department	4.90%
Sales Department	10.33%
Service Department	28.36%
<b>Grand Total</b>	<b>100.00%</b>



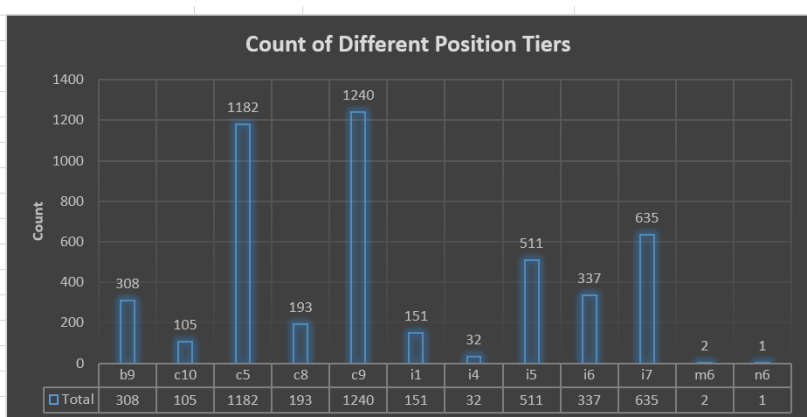
### Insights:

- The aforementioned pie chart shows that the operations department hires the most applicants, followed by the sales and services departments, while the human resources department hires the fewest candidates.
- These figures could represent the size of the teams and the significance of the various departments inside the company.

**E. Position Tier Analysis:** Different positions within a company often have different tiers or levels.

**Your Task:** Use a chart or graph to represent the different position tiers within the company. This will help you understand the distribution of positions across different tiers.

Status	Hired
Post Name	Count of application_id
b9	308
c10	105
c5	1182
c8	193
c9	1240
i1	151
i4	32
i5	511
i6	337
i7	635
m6	2
n6	1
<b>Grand Total</b>	<b>4697</b>



### Insights:

- Here, we can see that the company has employed the greatest number of candidates for post-tier C9, with C5 and I7 coming in a distant third.

## Result

- This project made it easier for me to see how crucial data analytics is to an organization's recruiting process since it offers useful information like the number of rejections, the reasons behind them, applicant profiles, job openings, and more, all of which assist the hiring department in making data-driven decisions.

## Drive Link

 Hiring Process Analytics.xlsx