

Data Analysis Project

EMPLOYEE ATTRITION

Presentation by Kumar Siddharth



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About Dataset

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INTRODUCTION

The Employee Attrition Analysis project in Power BI aims to explore and understand the key factors contributing to employee turnover within an organization. By leveraging the powerful data visualization and analysis capabilities of Power BI, this project will examine various aspects such as employee demographics, job roles, performance, and workplace environment to uncover trends and patterns linked to attrition. Through interactive dashboards, the analysis will provide valuable insights that can help HR teams make informed decisions to improve employee retention, enhance workplace satisfaction, and reduce turnover costs.

OBJECTIVE

The Employee Attrition Analysis project investigates the key factors driving employee turnover in the company. It examines demographics, job roles, and workplace conditions to identify patterns contributing to attrition. By using Power BI's visualization tools, the project reveals trends impacting employee retention. The insights gained will support strategies to improve satisfaction and reduce turnover rates.



ABOUT DATASET

The dataset used for the Employee Attrition Analysis project in Power BI contains information about employees in an organization, capturing a wide range of attributes related to their demographics, job roles, performance, and attrition status. The dataset helps to analyze the factors contributing to employee turnover, such as job satisfaction, workload, and work-life balance.



ABOUT DATASET

- EmployeeID: Unique identifier for each employee.
- Age: Age of the employee.
- Gender: Gender of the employee (Male/Female).
- MaritalStatus: Employee's marital status (Single/Married/Divorced).
- Department: The department the employee works in (e.g., Sales, R&D, HR).
- JobRole: Specific role/job title within the department.
- YearsAtCompany: Number of years the employee has worked at the company.
- YearsInCurrentRole: Time spent by the employee in their current role.
- MonthlyIncome: Monthly salary of the employee.
- JobSatisfaction: Employee's satisfaction with their job (on a scale).
- PerformanceRating: Rating of employee performance.
- WorkLifeBalance: Employee's perceived work-life balance (on a scale).
- Attrition: Whether the employee left the company (Yes/No).

Employee Attrition Analysis

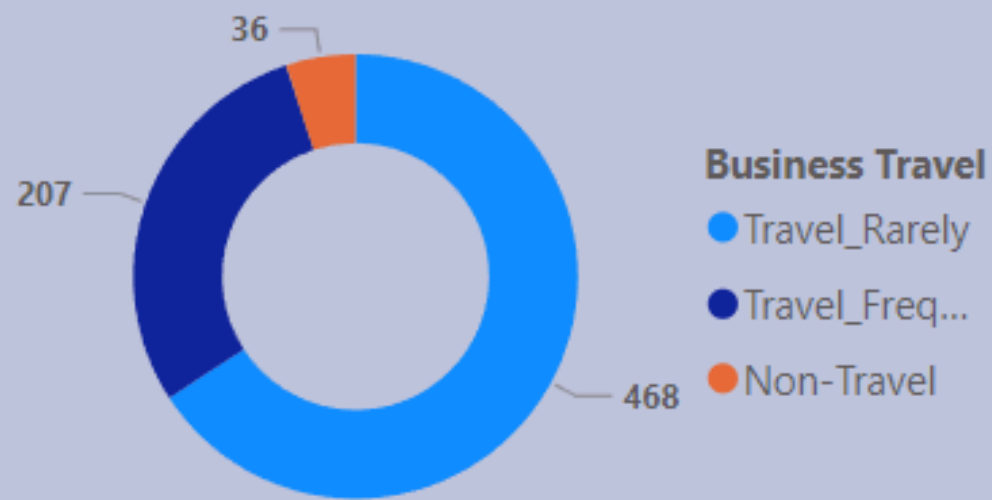
Total Employees

4410

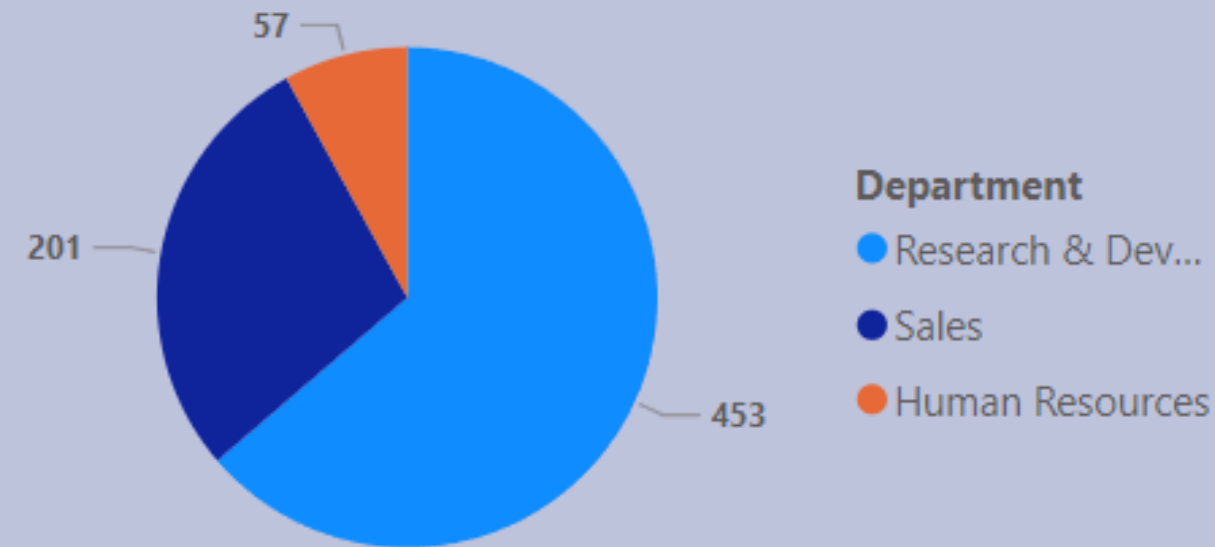
Total Attrition

711

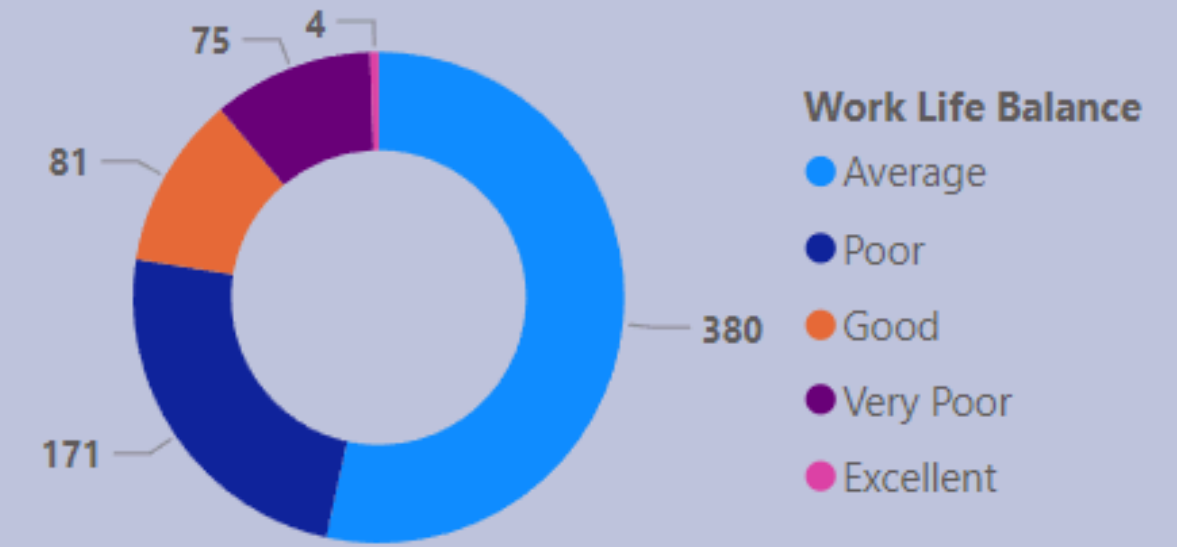
Attrition due to Business Travel



Department Wise Attrition



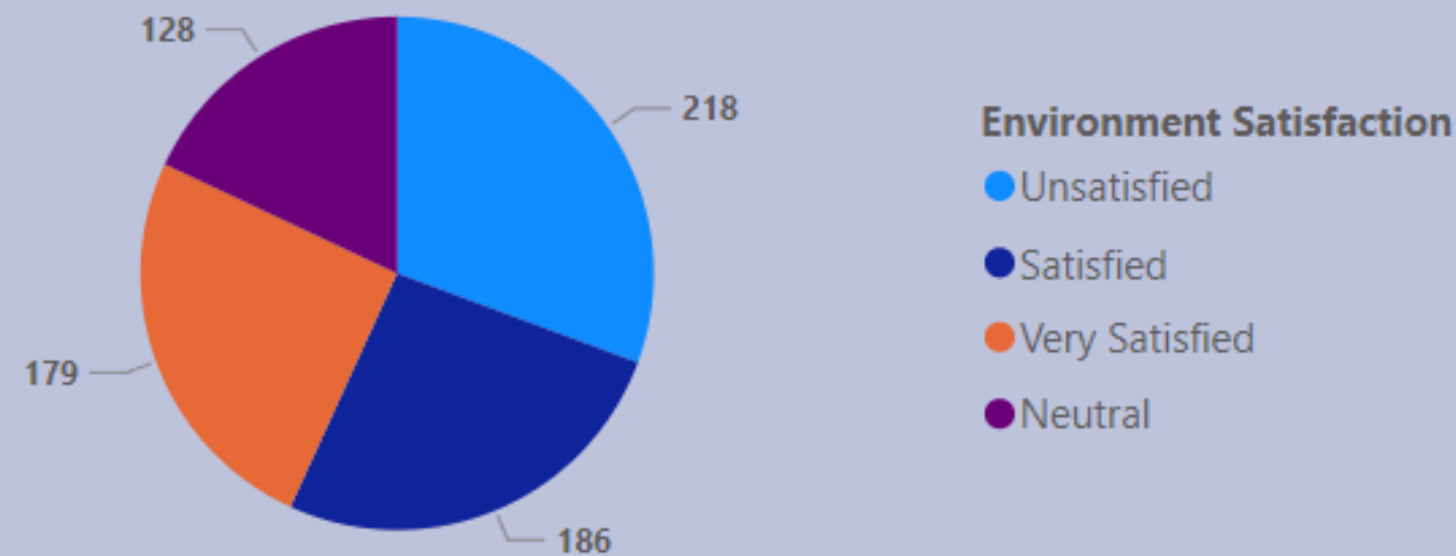
Attrition by Work Life Balance



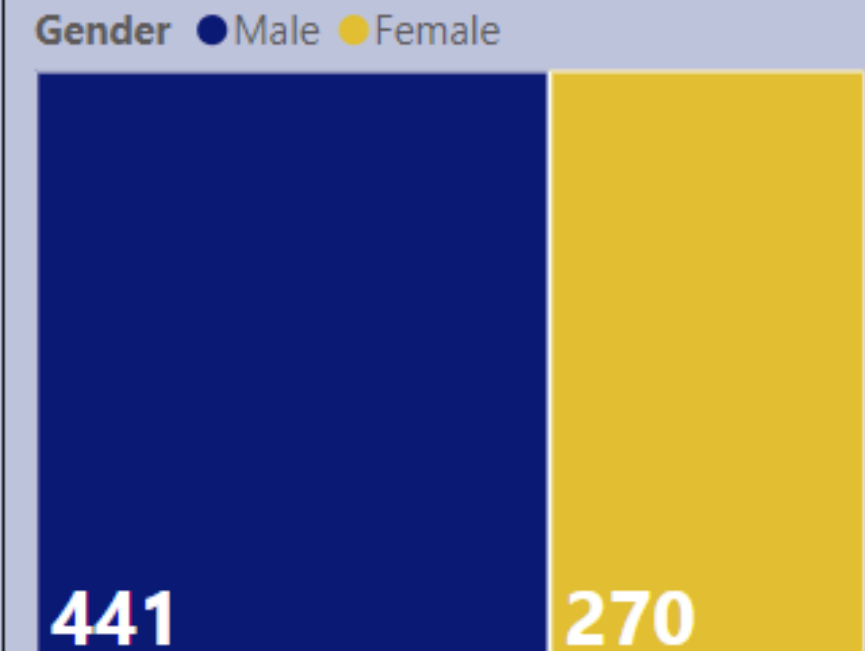
Attrition in Different Job Levels



Attrition Due to Environment



Attrition by Gender



Employee Attrition Analysis

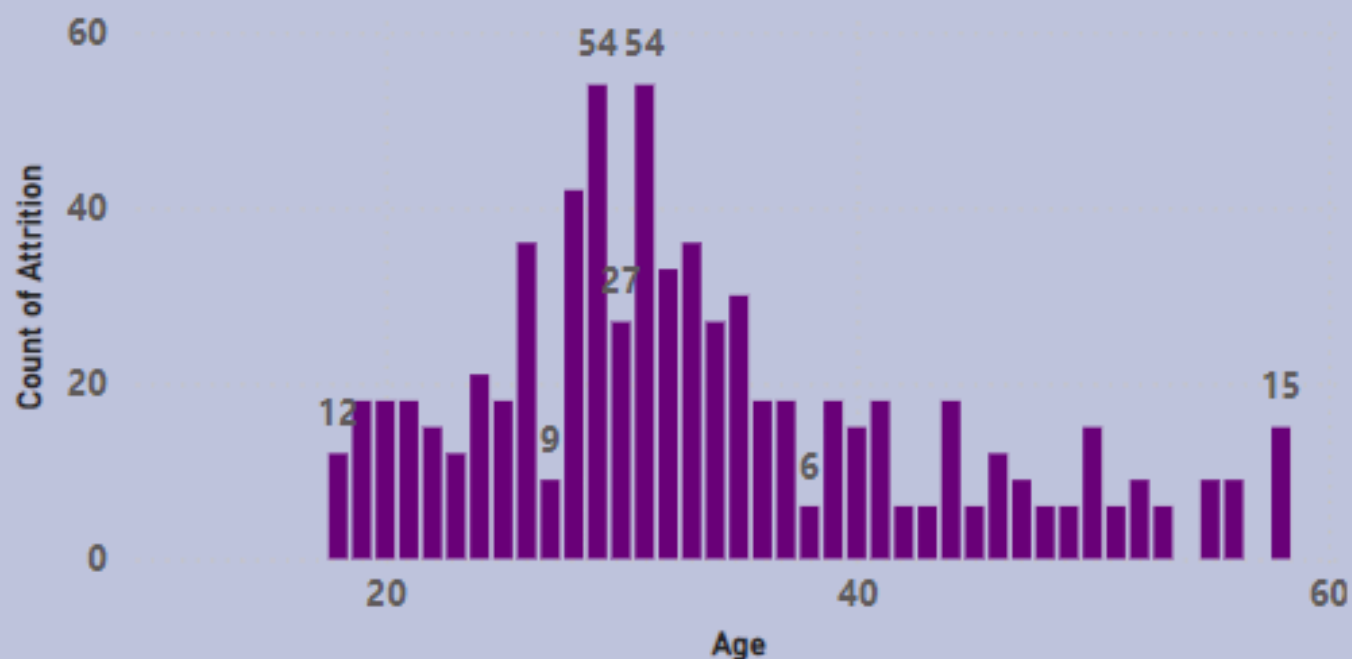
Total Employees

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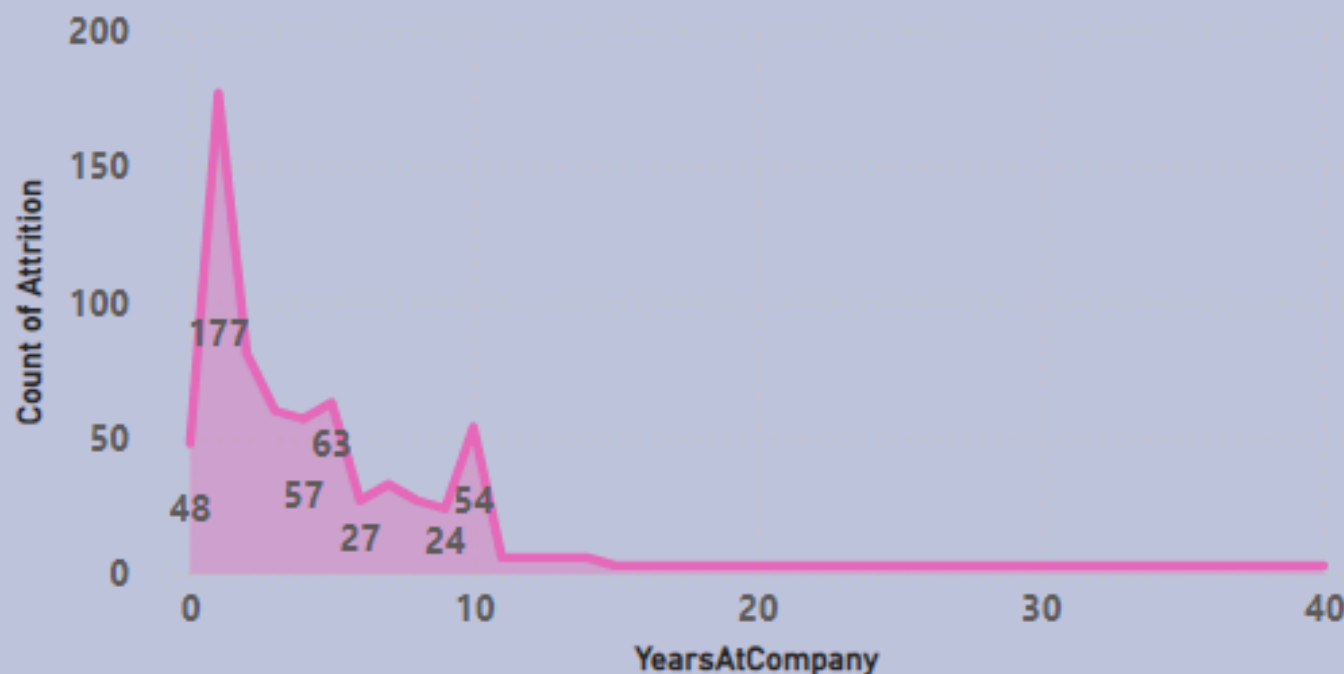
Total Attrition

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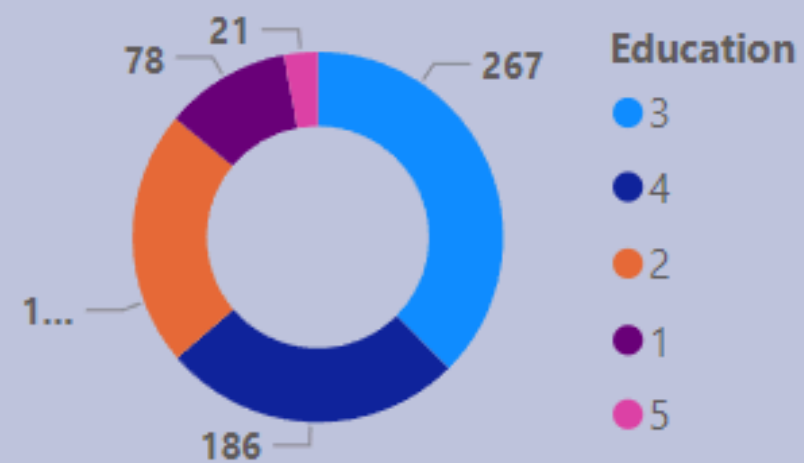
Attrition by Age



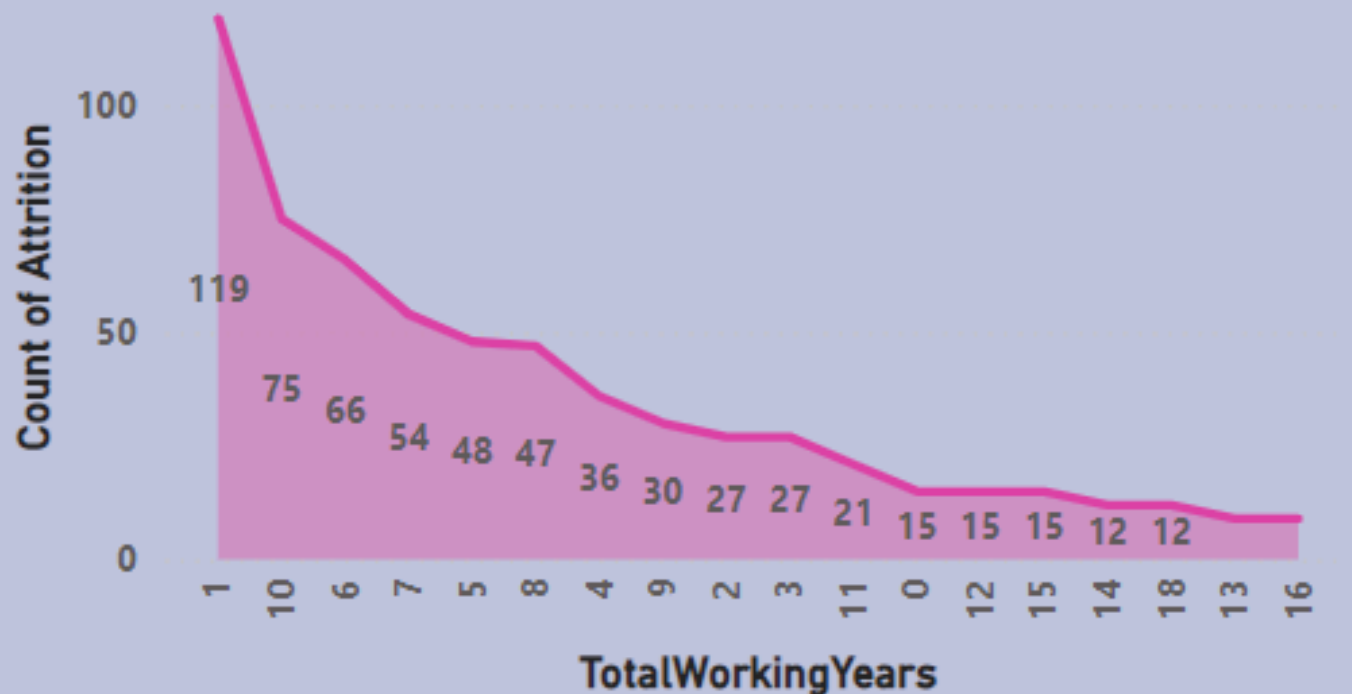
Attrition After Years at company



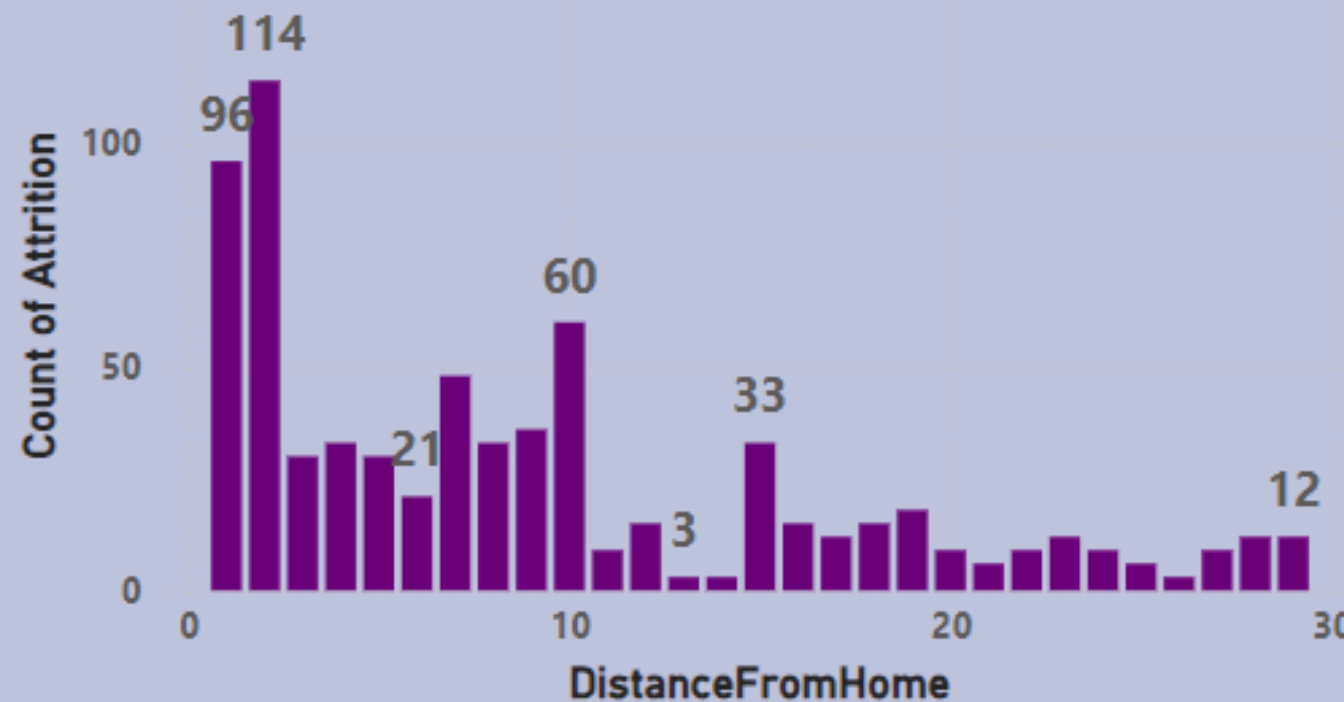
Attrition in Education Levels



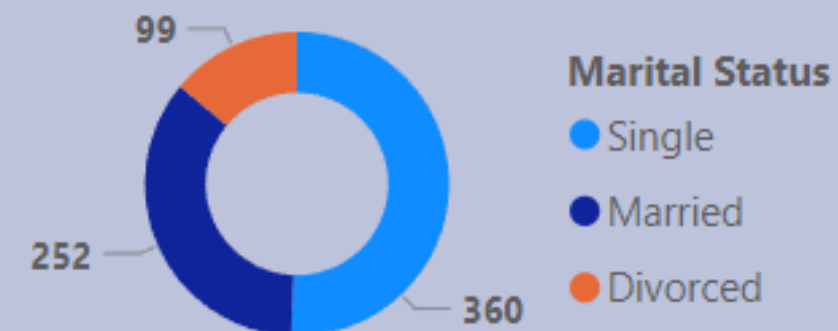
Attrition After Total Working Years



Attrition due to Distance from Home



Attrition by Marital Status



Employee Attrition Analysis

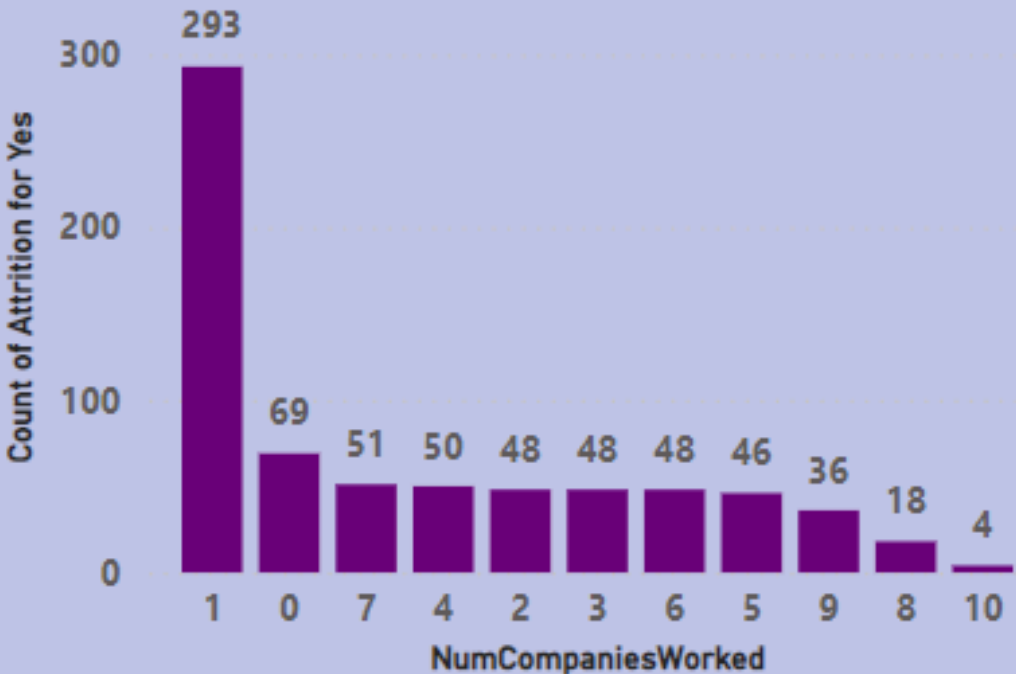
Total Employees

4410

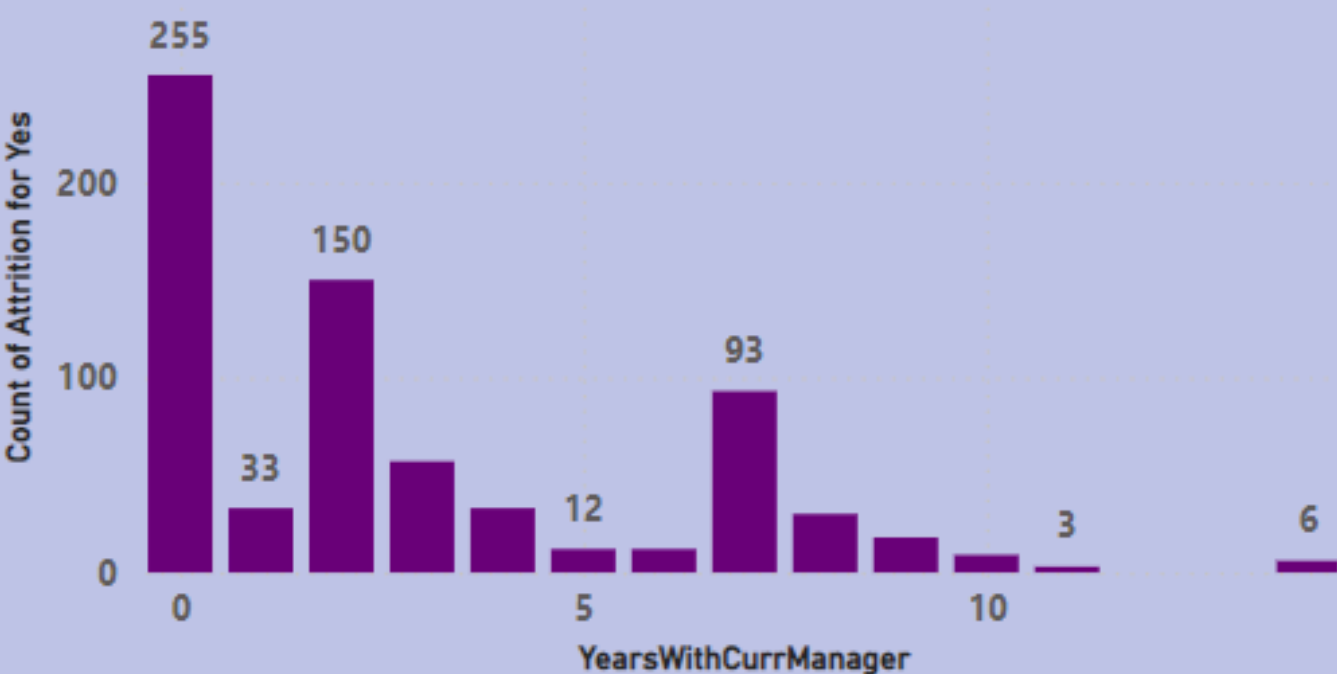
Total Attrition

711

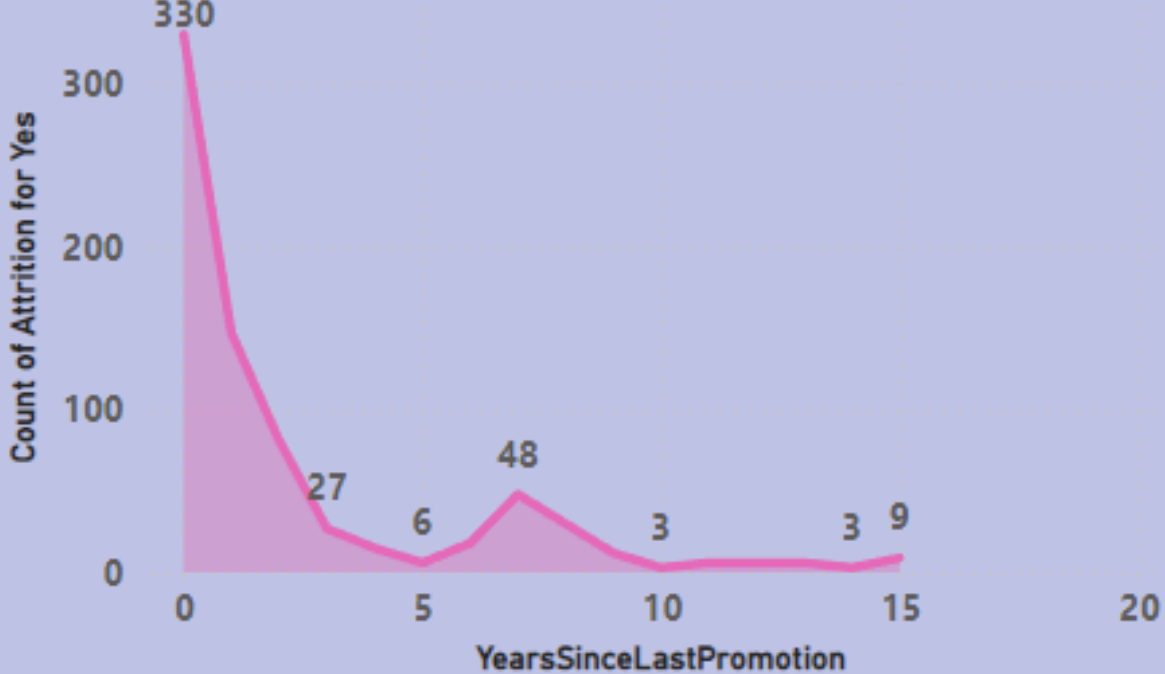
Attrition After Work in Companies



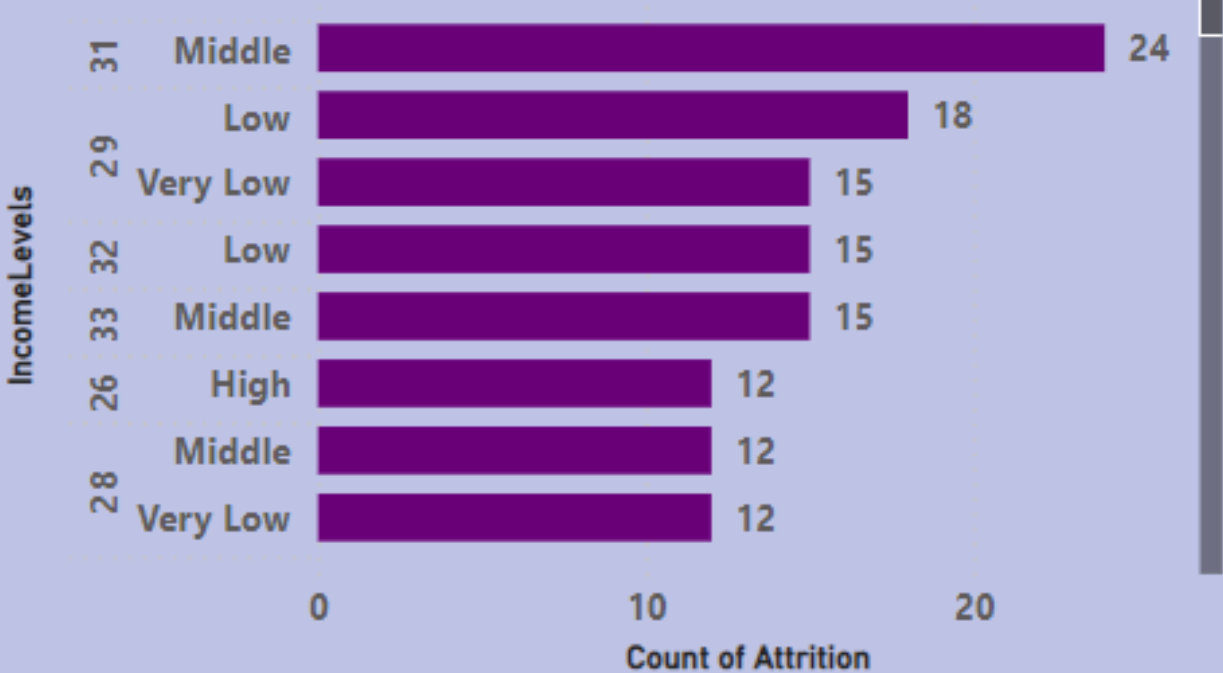
Attrition With Current Manager



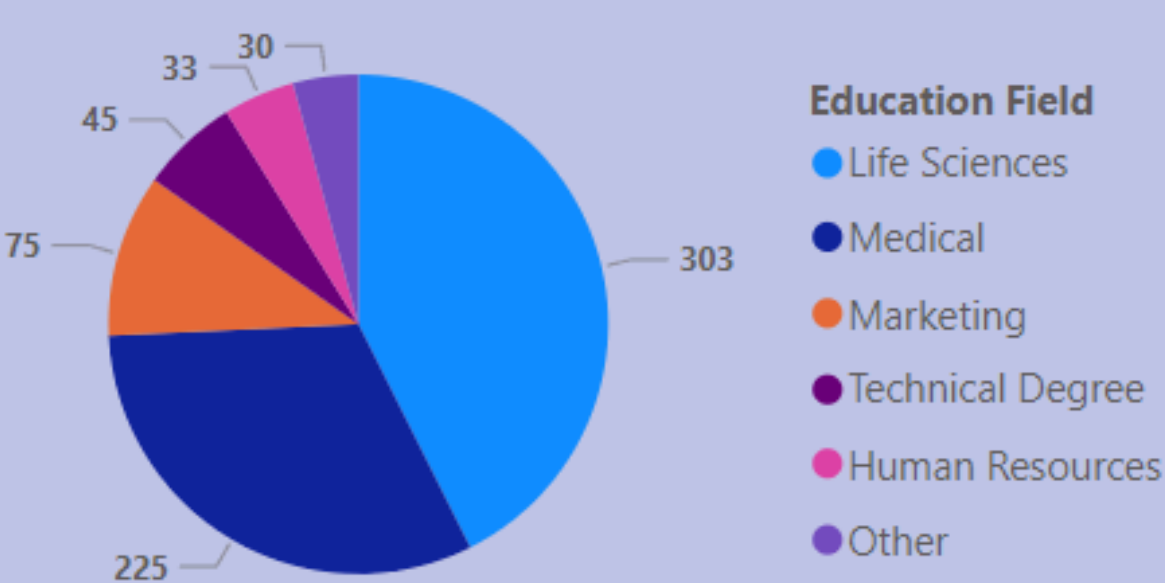
Attrition due to Promotion



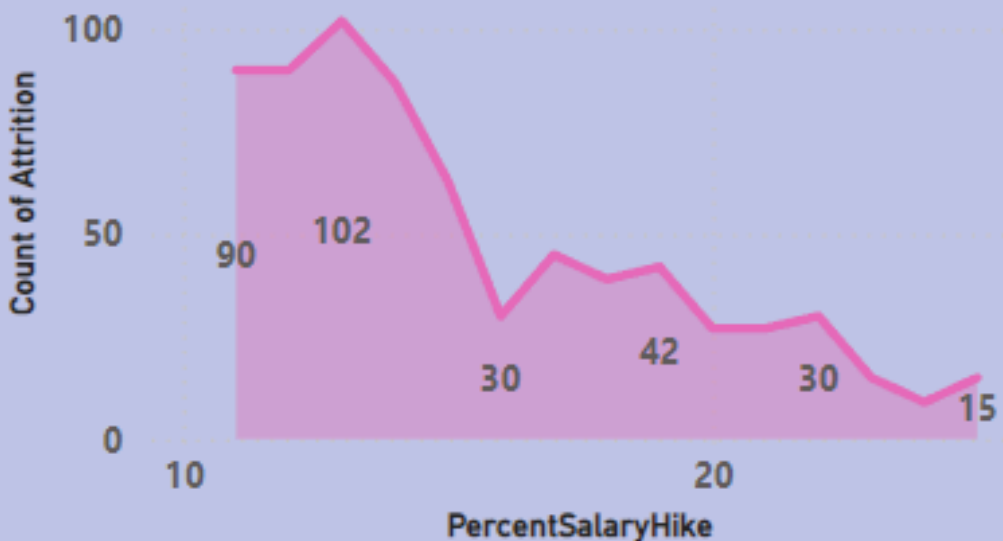
Attrition by Age and Income



Attrition in Education Field



Attrition by Percent of Salary Hike



CONCLUSION

The Employee Attrition Analysis project using Power BI effectively identified key factors influencing employee turnover. By visualizing data on demographics, job roles, satisfaction levels, and performance, the analysis revealed patterns and trends related to attrition. Interactive dashboards highlighted high-risk employee segments, such as specific age groups, departments, or job roles, allowing HR teams to focus retention efforts. The project also provided actionable insights into how work environment, compensation, and career development impact employee satisfaction. This analysis enables organizations to develop targeted strategies for reducing attrition, improving employee retention, and fostering a more engaged workforce.

TALK TO ME

If you have any questions, feel free to reach out to us through any of the following:

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THANK YOU

