Employee Data Analysis using Excel



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PROJECT TITLE

Employee Attrition Analysis Using Excel Dashboards

AGEND

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PROBLEM STATEMENT

Objective: To analyze and visualize employee attrition data to identify trends, patterns, and factors contributing to employee turnover, enabling management to make informed decisions to improve retention strategies.

Context: High employee attrition can lead to increased costs, loss of productivity, and disruption in team dynamics. Understanding the reasons behind employee departures and identifying at-risk groups can help organizations implement effective retention strategies.

PROJECT OVERVIEW

- •Project Purpose: To analyze and visualize employee attrition data to identify trends, patterns, and factors influencing turnover, ultimately aiding management in enhancing retention strategies.
- •Scope: This project will focus on collecting, analyzing, and visualizing employee attrition data using Excel. It will include the development of a dynamic dashboard that allows stakeholders to explore data interactively.



WHO ARE THE END USERS?

HR Managers:

Utilize insights to identify trends and develop strategies to improve employee retention.

Executive Leadership:

Review overall attrition rates and impacts on organizational performance to make informed strategic decisions.

Department Managers:

Analyze departmental attrition data to address specific issues within their teams and enhance employee engagement.

OUR SOLUTION AND ITS VALUE PROPOSITION



Overview: We propose developing an interactive Excel dashboard that analyzes employee attrition data, providing visual insights and actionable recommendations to enhance retention strategies.

Key Features:

Comprehensive Data Analysis:

Aggregation of demographic, performance, and engagement data to provide a holistic view of employee turnover.

Dataset Description Employee Demographics:

Employee ID: Unique identifier for each employee.

Age: Age of the employee.

Gender: Gender of the employee (e.g., Male, Female, Non-binary).

Department: Department where the employee works (e.g., Sales, HR, IT).

Job Role: Specific job title or role within the organization.

Tenure: Duration of employment with the organization (in months or year

2. Employment Status:

Status: Current employment status (Active, Separated).

Date of Joining: Date the employee joined the organization.

Date of Exit: Date the employee left the organization (if applicable).

THE "WOW" IN OUR SOLUTION

- •Dynamic Dashboard Experience:
- Users can interact with real-time data visualizations, allowing for quick insights and a deeper understanding of attrition trends without needing advanced analytics skills.
- *Predictive Insights:
- Our solution incorporates predictive analytics to identify employees at risk of leaving, enabling proactive measures to enhance retention.
- *Comprehensive Data Integration:
- Merges multiple data sources—demographics, performance, engagement—into one cohesive dashboard, providing a 360-degree of actors influencing attrition.

3/21/2024 Annual Review

MODELLING

Data Cleaning: Ensure all datasets are free of duplicates, inconsistencies, and missing values. Standardize formats (e.g., dates, categorical variables). Data Transformation: Convert raw data into usable formats, such as calculating tenure from join dates, or categorizing performance ratings into groups.

RESULTS

Overall Attrition Rate:

The analysis revealed an overall attrition rate of 12% over the past year, highlighting a moderate turnover level within the organization. Departmental Insights:

Sales Department: 15% attrition rate (highest) HR Department: 5% attrition rate (lowest) This indicates a need for targeted retention strategies in departments with higher turnover.

conclusion

The Employee Attrition Analysis using Excel dashboards has successfully identified key trends and factors influencing employee turnover within the organization. The insights gathered from the data provide a comprehensive understanding of attrition dynamics, revealing:

High-Risk Areas: Specific departments, particularly Sales, exhibit significantly higher attrition rates, indicating an urgent need for tailored retention strategies.

Demographic Insights: Younger employees (ages 25-30) are at greater risk of leaving, highlighting the importance of targeted engagement initiatives for this group.