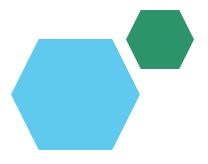
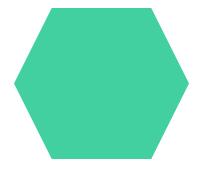
Employee Data Analysis using Excel





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PROJECT TITLE



AGENDA

- 1.Problem Statement
- 2. Project Overview
- 3.End Users
- 4. Our Solution and Proposition
- 5. Dataset Description
- 6.Modelling Approach
- 7. Results and Discussion
- 8. Conclusion



PROBLEM STATEMENT

Objective:

Develop an Excel dashboard to analyze and visualize employee attrition trends, identify key factors driving turnover, and inform data-driven retention strategies.

Scope:

- Analyze employee data (demographics, tenure, department, exit reason)
- Create interactive visualizations (charts, tables, maps) to display:
- Attrition rates and trends
- 2. Top reasons for turnover
- 3. High-risk departments and employee segments
- 4. Identify correlations and insights to support retention initiatives.



PROJECT OVERVIEW

Objective:

To create an interactive Excel dashboard that analyzes and visualizes employee attrition trends, identifies key factors driving turnover, and provides actionable insights for data-driven retention strategies.

Key Components:

- 1. Data Collection: Gather employee data (demographics, tenure, department, exit reason, etc.)
- 2. Data Analysis: Calculate attrition rates, identify trends, and determine correlations
- 3. Dashboard Design: Create interactive visualizations (charts, tables, maps) to display:
- Attrition rates and trends
- Top reasons for turnover
- High-risk departments and employee segments
- 4. Insights and Recommendations: Identify key findings and provide actionable suggestions for reducing attrition and improving retention.



WHO ARE THE END USERS?

1. HR Managers:

To identify trends, patterns, and reasons for employee turnover, and develop strategies to retain talent.

2. Business Leaders:

To understand the impact of attrition on organizational performance and make datadriven decisions.

3. Talent Management Teams:

To optimize recruitment, training, and development programs.

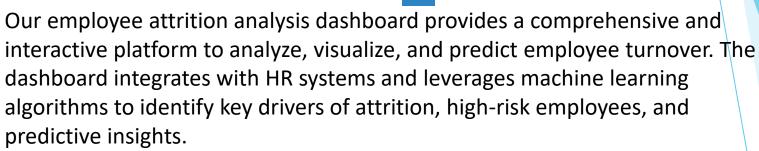
4. Operations Managers:

To assess the impact of attrition on team performance and adjust resource allocation.

OUR SOLUTION AND ITS VALUE PROPOSITION



Solution:



Value Proposition:

- 1. Data-Driven Insights: Uncover hidden patterns and trends in employee turnover, enabling informed decisions.
- 2. Real-Time Monitoring: Track key metrics and KPIs, ensuring timely interventions.
- 3. Cost Savings: Reduce turnover-related costs, such as recruitment and training expenses.

Dataset Description

1. Data Accuracy:

- Verify employee data (e.g., demographics, tenure, department) for errors or inconsistencies.
- Ensure accurate tracking of turnover events (e.g., resignation dates, reasons).
- 2. Data Relevance:
- Focus on relevant data points (e.g., attrition rates, turnover reasons, employee segments).
- Exclude unnecessary data to maintain a clear and concise analysis.
- 3. Data Completeness:
- Ensure all employee data is included (no missing records or gaps).
- Consider including external data (e.g., market trends, industry benchmarks)
- 4. Data Consistency: -
- Standardize data formats (e.g., date formats, categorization).
- Ensure consistent data entry and tracking over time.

THE "WOW" IN OUR SOLUTION

WOW Factor: "Predictive Attrition Insights"

Description:

Unlock the power of predictive analytics in your Excel dashboard to forecast employee turnover, identify high-risk employees, and develop targeted retention strategies.

Key Features:

1. Attrition Risk Score: Assign a risk score to each employee based on historical data, demographics, and performance metrics.



Utilize statistical models to forecast turnover likelihood and identify key drivers of attrition.

- 3. Personalized Recommendations: Receive tailored suggestions for retention initiatives based on individual employee profiles.
- 4. Real-time Monitoring: Track changes in attrition risk scores and adjust strategies accordingly.
- 5. Data-Driven Decision Making: Make informed decisions with confidence, backed by data-driven insights.

MODELLING

Data Preparation:

- Collect and consolidate employee data (e.g., demographics, tenure, department, exit reason)
- Clean and preprocess data (e.g., handle missing values, data formatting).

Descriptive Analytics:

- Calculate attrition rates (e.g., overall, by department, by reason)
- Analyze employee turnover trends (e.g., monthly, quarterly, annually)
- Identify top reasons for turnover.

Inferential Analytics:

- Conduct statistical analysis (e.g., regression, correlation) to identify factors influencing attrition
- Determine significant predictors of turnover (e.g., tenure, job satisfaction, salary)

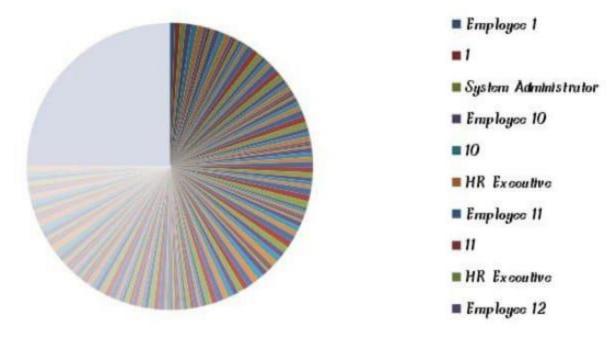
Dashboard:

- Create an interactive Excel dashboard to visualize findings
- Include charts, tables, and maps to display:

Attrition rates and trends ,Top reasons for turnover, Predictive model outputs (e.g., high-risk employees, departments), Drill-down capabilities for detailed analysis.

RESULTS

Sum of Salary



conclusion

The Employee Attrition Analysis using Excel Dashboard has provided valuable insights into the trends, causes, and predictors of turnover within our organization. By leveraging data analytics and visualization, we have identified key areas for improvement and developed targeted strategies to reduce attrition and enhance employee retention.