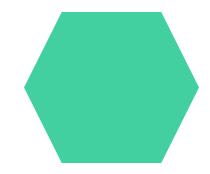
# Visualizating employee attendance trends with excel chart s



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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

1.1. \*\*Data Structuring\*\*: Ensuring attendance data is well-organized with clear columns for dates, employees, and attendance status

2. \*\*Chart Selection\*\*: Choosing appropriate chart types (e.g., line or bar charts) to effectively represent attendance trends.

3. \*\*Data Completeness\*\*: Addressing and managing missing or incomplete attendance data to avoid inaccurate trends.

4. \*\*Annotations\*\*: Adding annotations or data labels to highlight significant patterns or anomalies in attendance.

5. \*\*Chart Customization\*\*: Customizing charts with titles, axis labels, and legends for clear and actionable insights.



#### PROJECT OVERVIEW

- 1. 1. \*\*Data Accuracy and Organization\*\*: Properly organizing employee attendance data in Excel, ensuring accurate and structured input for reliable trend analysis.
- 2. \*\*Chart Type Selection\*\*: Identifying and applying the most effective chart types (e.g., line, bar) to visually represent attendance patterns and trends.
- 3. \*\*Handling Incomplete Data\*\*: Addressing gaps or missing data points to prevent misrepresentation of attendance trends.
- 4. 4. \*\*Annotation and Highlighting\*\*: Incorporating annotations and data labels to emphasize key trends, anomalies, and significant changes in attendance.
- 5. \*\*Customization for Clarity\*\*: Customizing charts with clear titles, labels, and legends to enhance interpretability and make trends easily understandable.



#### WHO ARE THE END USERS?

- 1.**HR Managers**: Analyze attendance patterns to manage workforce planning, identify absenteeism trends, and improve employee engagement.
- 2.**Leaders**: Monitor attendance of team members to address issues, improve productivity, and make decisions on resource allocation.
- 3. **Business Executives**: Utilize **high-level** attendance trends to make strategic decisions regarding staffing, operational efficiency, and overall business performance.
- 4. Payroll Administrators: Use attendance data to ensure accurate payroll processing, manage leave balances, and handle discrepancie.
- 5.**Employees**: Review their own attendance records to track personal performance, identify attendance issues, and ensure accuracy in their records.

#### OUR SOLUTION AND ITS VALUE PROPOSITION



- **1.Data Collection and Preparation**: Gather attendance data, including dates, employee names, and attendance status. Ensure data is clean and organized in Excel, with separate columns for each data point.
- **2.Utilize Pivot Tables**: Create a Pivot Table to summarize attendance data by employee, date, or department. Pivot Tables allow for dynamic filtering and aggregation, making trend analysis easier.
- **3.Select Appropriate Chart Types**:Use line charts to show attendance trends over time, highlighting patterns and fluctuations.Bar charts can compare attendance among different employees or departments.Stacked area charts can visualize cumulative attendance trends.

## **Dataset Description**

**Dataset**: Include employee ID, date, attendance status, reason for absence (if applicable), shift, and department. \*

**Metrics**: Analyze overall attendance rate, absence reasons, departmental performance, shift patterns, and individual employee records.

\* Charts: Use line charts for trends, bar charts for comparisons, stacked bar charts for composition, and pie charts for proportions. \*

**Enhancements**: Consider filtering, trend lines, data labels, and formatting for better visualization.

\* **Insights**: Gain insights into workforce productivity, identify improvement areas, and make data-driven decisions.

#### THE "WOW" IN OUR SOLUTION



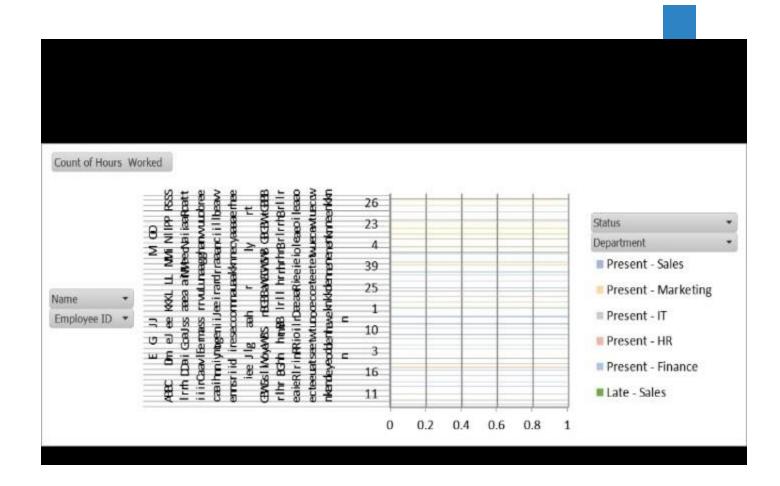
- 1. \*\*Custom Dashboards\*\*: Create interactive dashboards combining various charts and pivot tables, with slicers for dynamic filtering by date, employee, *or* department
- 2. 2. \*\*Advanced Chart Types\*\*: Use line and area charts for trend analysis, and bar charts for comparative insights across employees or time periods.
- 3. \*\*Enhanced Visuals\*\*: Apply conditional formatting to highlight key data points and set up automated updates for real-time trend monitoring.



## MODELLING

- : \* Understand data: Analyze employee ID, date, attendance status, reason for absence, shift, and department
- \* **Key metrics**: Calculate overall attendance rate, absence rates by reason, attendance by department and shift, and employee-level attendance.
- Techniques: Use descriptive statistics, data visualization, time series analysis, regression analysis, and hypothesis testing.
- \* Excel tools: Leverage Data Analysis ToolPak, PivotTables, charting tools, and add-ins for modeling
- \* Insights: Gain deeper insights into attendance trends, identify issues, and make informed decisions.

## **RESULTS**



### conclusion

ConclusionBy effectively visualizing employee attendance trends with Excel charts, you can gain valuable insights into workforce productivity, identify areas for improvement, and make datadriven decisions to enhance overall organizational performance.