Visualizing employee Attendance trends With Excel charts

STUDENT NAME: Saranya S R
REGISTER NO:122202465
DEPARTMENT:B.Com (corporate secretaryship)
COLLEGE: Dr.MGR janaki college of Arts and science for women

PROJECT TITLE

Visualizing employee attendance trends with excel charts

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

Our organization struggles to effectively track and analyze employee attendance patterns, leading to:

- Inefficient management of absenteeism and tardiness
- Lack of insight into attendance trends and potential underlying causes
- Inability to identify employees who may need support or intervention
- Difficulty in making data-driven decisions to improve attendance and overall workforce productivity

PROJECT OVERVIEW

Design and develop an interactive visualization tool to track and analyze employee attendance patterns, providing insights
• . **to improve attendance management, employee engagement, and overall workforce productivity.**

- Collect and integrate attendance data from existing HR systems.
- Design and develop a user-friendly visualization dashboard.
- Implement interactive features for exploring attendance trends.
- Conduct analysis to identify patterns, anomalies, and correlations.
- Develop recommendations for improving attendance and productivity.

WHO ARE THE END USERS?

1. **HR Managers:** To identify attendance patterns, manage absenteeism, and develop strategies to improve employee engagement.
2. **Team Managers:** To monitor team attendance, identify trends, and address potential issues affecting team productivity.
3. **Department Heads:** To oversee attendance trends across departments, make informed decisions, and optimize workforce planning.
4. **Business Analysts:** To analyze attendance data, identify correlations, and provide insights for business improvement.
5. **Employees:** To view their own attendance records, understand company policies, and manage their own attendance.

OUR SOLUTION AND ITS VALUE PROPOSITION

1. **Gain insights:** Identify attendance patterns, trends, and anomalies to inform data-driven decisions.
2. **Improve attendance management:** Reduce absenteeism, tardiness, and turnover by addressing underlying causes.
3. **Enhance employee engagement:** Foster a positive work environment by recognizing and supporting employees with attendance challenges.
4. **Boost productivity:** Optimize workforce planning, reduce costs, and increase overall business performance.
5. **Simplify attendance tracking:** Integrate with existing HR systems for effortless data management.

Dataset Description

1. **Employee Attendance:** Daily attendance records (Employee ID, Date, Attendance Status)
2. **Employee Info:** Basic employee information (Employee ID, Name, Job Title, Department)
3. **Attendance Trends:** Aggregated attendance data (Date, Total Present, Total Absent, etc.)
4. **Absence Reasons:** Reasons for absences (Reason, Frequency, Percentage)
5. **Employee Performance:** Performance ratings (Employee ID, Performance Rating, Review Date)

THE "WOW" IN OUR SOLUTION

- **Interactive Heatmap:** Visualize attendance patterns
- **AI-powered Insights:** Predictive analytics for attendance
- **Real-time Alerts:** Swift response to attendance issues
- **Employee Engagement Portal:** Easy access to attendance records
- **Data-Driven Storytelling:** Turn data into actionable stories

MODELLING

Modeling Approach:

1. Collect attendance data
2. Clean and prepare data
3. Extract relevant features
4. Group employees with similar attendance patterns
5. Predict future attendance trends
6. Identify unusual attendance patterns
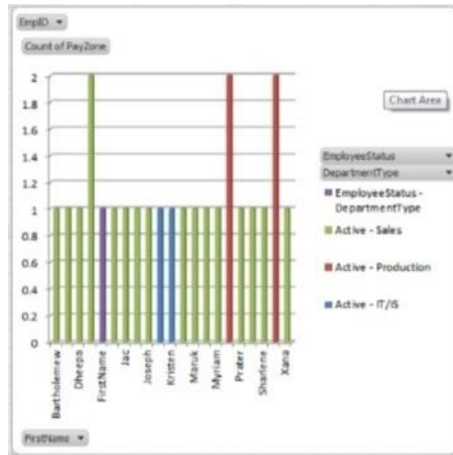7. Visualize attendance trends and insights

Modeling Techniques

1. Regression-
2. Decision trees-
3. Clustering
4. Anomaly detection

Modeling Tools:

1. Python libraries (Pandas, Scikit-learn, Matplotlib)
2. Data visualization tools (Tableau, Power BI)

RESULTS

1. Better attendance insights
2. Increased employee engagement
3. Data-driven decision making
4. Improved productivity
5. Enhanced work-life balance

conclusion

It seems like you're looking for a concise conclusion. Here's a simple one.

Visualizing employee attendance trends helps organizations improve attendance, engagement, and productivity by identifying patterns, addressing underlying causes, and making data-driven decisions.