loyee Data Analysis using Excel

STUDENT NAME: D.DILSHAD BANU
REGISTER NO:122203877/asunm1621122203877
DEPARTMENT: BCOM CS SHIFT 2
COLLEGE: SHASUN JAIN COLLEGE FOR WOMEN

PROJECT TITLE

Employee Performance Analysis using Excel

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

Regular performance evaluations are vital for recognizing employee strengths, addressing areas for improvement, and driving success. They keep individuals focused on organizational priorities and encourage constant development. Neglecting this process can lead to disengagement and hinder performance growth.

PROJECT OVERVIEW

This project seeks to uncover the relationship between department type and employee performance by examining a comprehensive dataset. By categorizing employees by department, we will investigate trends and correlations between departmental characteristics, performance metrics, and employee ratings. Our analysis will reveal critical factors influencing performance ratings within each department, enabling data-driven decisions to refine departmental strategies, elevate talent development, and boost organizational effectiveness.

WHO ARE THE END USERS?

- HR Managers: To create personalized development plans, tailored training programs, and informed talent management strategies.

  -Department Leaders: To address performance gaps, recognize high achievers, and optimize departmental performance.
- Executive Leadership: To align employee performance with business objectives, drive productivity, and foster engagement.
- - Performance Review Committees: To ensure fair, data-driven evaluations and effective performance improvement initiatives.
- - Business Analysts and Data Scientists: To uncover actionable insights, driving predictive analytics and strategic workforce planning

OUR SOLUTION AND ITS VALUE PROPOSITION

Unlock the full potential of your workforce with our data analytics solution, designed to uncover hidden insights into employee performance by department. Our methodology includes:-

- **--Advanced data filtering and classification**
- **Conditional formatting for data integrity**
- **- Pivot tables for efficient data summarization**
- **- Multi-bar graphs for visual performance benchmarking**

By applying these techniques, we reveal actionable patterns and trends, enabling data-driven decisions.:-

- **-Drive targeted performance enhancements**
- **Elevate talent management strategies**
- **- Optimize resource allocation for maximum ROI**
- **- Foster strategic growth through data-informed planning**

Dataset Description

The employee dataset, sourced from Kaggle, comprises the following key attributes:-

- **--Employee ID (Unique Identifier)**
- **Full Name (Employee's complete name)**
- **- Gender (Male, Female, Non-binary, etc.)**
- **- Department Type (Sales, Marketing, Engineering, etc.)**
- **- Performance Score (Textual rating: Excellent, Good, Average, Poor)**
- **- Employee Rating (Numerical or categorical performance rating)**

This comprehensive dataset enables a detailed analysis of employee performance, allowing for insights into departmental dynamics, gender disparities, and performance trends.

THE "WOW" IN OUR SOLUTION

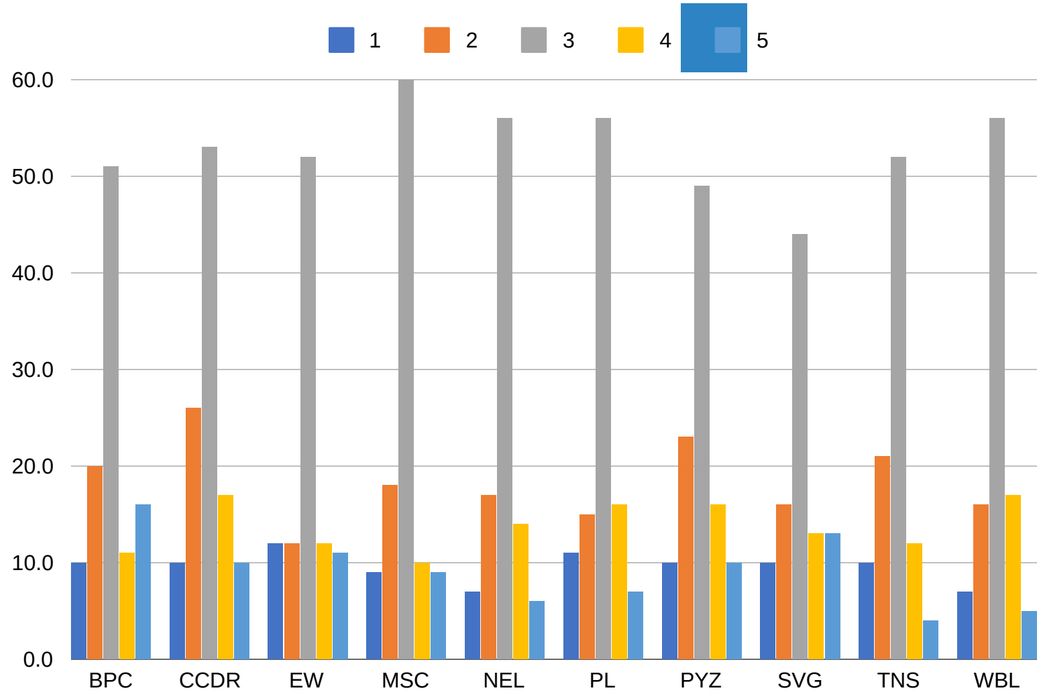
- Dynamic Pivot Table Analysis
- Advanced Multi-bar chart
- Visualisation Tailored Performance
- Insights Interactive
- Data Exploration Actionable
- Recommendation

MODELLING

Employee Performance Analysis

1. **Data Collection–** Source: Kaggle dataset– Attributes: Employee ID, Full Name, Gender, Department Type, Performance Score, Employee Rating
2. **Data Cleaning–** Handled missing values through imputation or removal
3. **Features Considered–** Employee ID (unique identifier)– Gender (categorical data)– Department Type (key feature for classification)– Performance Score (ordinal data, standardized to numeric scale)– Employee Rating (additional performance metric)
4. **Techniques Used–** Pivot Tables (summarize and classify performance data by Department Type)– Multi–Bar Charts (visualize and compare performance ratings across departments)
5. **Visualizations–** Pivot Table Views (summary tables and cross–tabulations)– Multi–Bar Charts (visual representations of performance ratings across departments).

RESULTS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SVG
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WBL

conclusion

The employee performance analysis project uncovered valuable insights into departmental performance variations. By leveraging data cleaning, pivot tables, and multi-bar charts, we classified, summarized, and visualized performance data, revealing key trends and patterns. Our findings enable data-driven decisions for HR, department heads, and executives to enhance employee development, optimize strategies, and drive organizational success. By addressing performance gaps and leveraging strengths, the organization can foster a more effective and motivated workforce, driving long-term growth and competitive advantage