

# Employee Data Analysis using Excel



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# PROJECT TITLE



## EMPLOYEE ENGAGEMENT AND SATISFACTION ANALYSIS WITH 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

Employee satisfaction analysis measures how happy and engaged employees are, focusing on aspects like work environment, compensation, growth opportunities, and management. It helps identify areas to improve workplace morale and productivity. Employee engagement analysis assesses how emotionally committed employees are to their organization and its goals. It examines factors like motivation, involvement, and job satisfaction to identify ways to enhance performance and reduce turnover.



# PROJECT OVERVIEW

- Employee engagement and satisfaction are related but distinct concepts. While satisfaction measures how content employees are with their jobs (covering factors like pay, benefits, and work conditions), engagement goes deeper, reflecting how emotionally invested they are in their work and the organization's success. Higher satisfaction can contribute to engagement, but engagement also requires a sense of purpose, commitment, and motivation beyond basic contentment.



# WHO ARE THE END USERS?

1. Managers and Supervisors: For feedback and decision-making.
2. HR Departments: For training, talent management, and fairness.
3. Employees: For understanding feedback and growth opportunities.
4. Executives: For strategic workforce insights.
5. Coaches/Consultants: For development support.
6. Compliance Officers: For ensuring fair evaluations



# OUR SOLUTION AND ITS VALUE PROPOSITION



- Conditional formatting: Highlight the missing values.
- Filter: Filter out or remove the missing values.
- Formula: Calculate the employee performance level.
- Pivot table: Summary.
- Graph: For data visualization.



# Dataset Description

- Employee data set-Kaggle
- Employee ID(numerical values)
- First name and last name of employees(text format)
- Job role
- Age
- Gender
- Tenure
- Engagement
- Satisfaction
- Turnover risk



# THE "WOW" IN OUR SOLUTION

- Advanced Formulas: Use VLOOKUP, INDEX-MATCH, and dynamic arrays (FILTER, SORT).
- Conditional Formatting: Highlight key data with colors or icons.
- Dashboards: Make interactive with Slicers and Pivot table.
- Visuals: Use charts, sparklines, and heat maps. These enhance clarity and engagement.



# MODELLING

## Step 1: Gather Data

*Collect Employee Data:* Create a spreadsheet with relevant data. For example, you might include columns for:

- Employee Name
- Department,
- KPIs (e.g., Sales, Customer Satisfaction Score, Project Completion Rate)
- Performance Rating (if applicable)

## Step 2: Organize Data

*Structure Your Data:* Ensure your data is organized in a tabular format.

## Step 3: Calculate Performance Metrics

*Add Calculations:* If necessary, add columns to calculate averages or totals for each KPI.

For example, you can use formulas like `=AVERAGE(range)` or `=SUM(range)`.

# MODELLING

## Step 4: Create Graphs

*Select Data for Graphing:* Highlight the data you want to visualize.

*Insert a Graph:*

- Go to the Insert tab in the Excel ribbon.
- Choose the type of graph you want to create (e.g., Bar Chart, Column Chart, Line Chart).
- Click on the chosen chart type, and Excel will generate a graph based on your selected data.

## Step 5: Customize the Graph

*Format the Graph:* Click on the graph to select it, and use the Chart Tools that appear in the ribbon to customize it. You can change the chart title, adjust axis labels, and modify colors to improve readability.

# MODELLING

## Step 6: Analyze the Results

*Interpret the Graph:* Use the visual representation to analyze employee engagement and satisfaction. Look for trends, high performers, and areas needing improvement.

## Step 7: Graphs

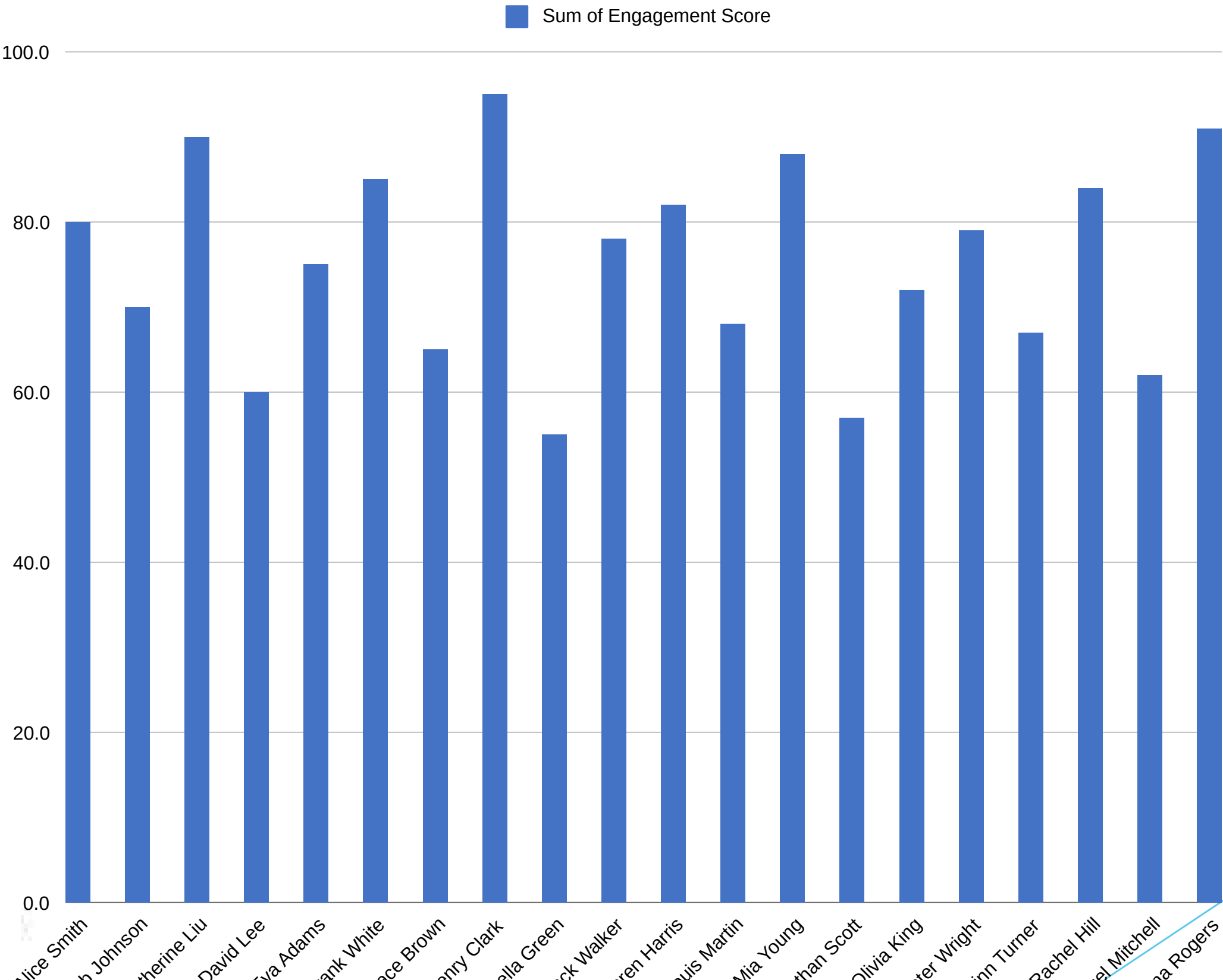
*Bar Chart:* To compare sales performance among employees.

*Line Chart:* To show trends in customer satisfaction over time.

*Pie Chart:* To represent the distribution of performance ratings across departments.

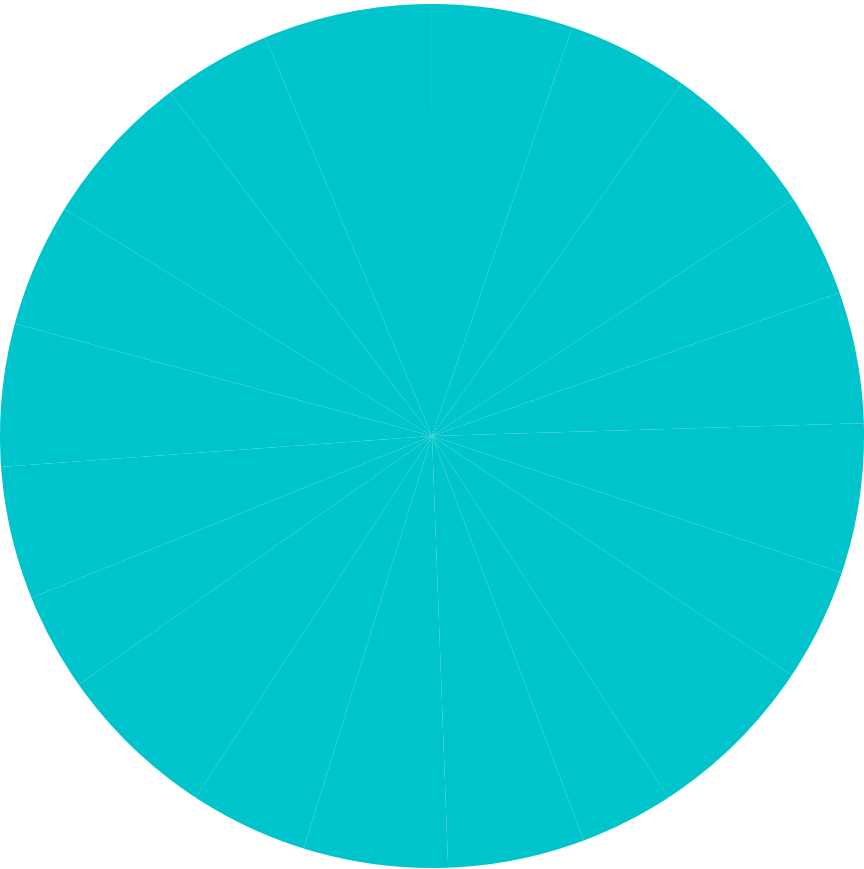
# RESULT

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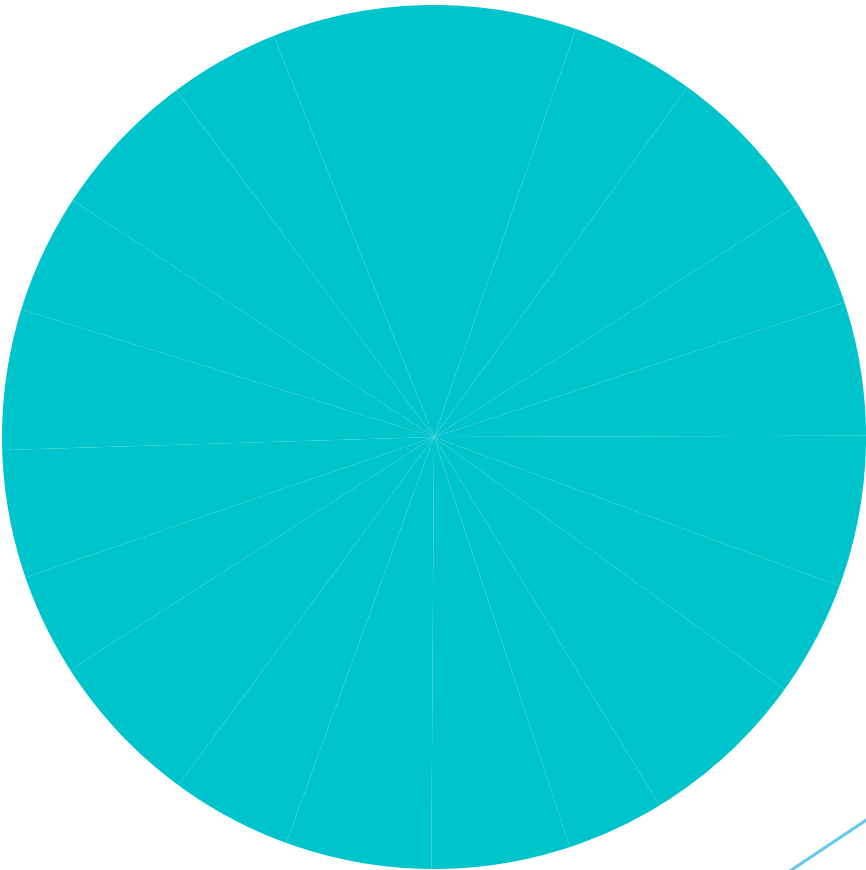


# RESULTS

- Louis Martin
- Mia Young
- Nathan Scott
- Olivia King
- Peter Wright
- Quinn Turner
- Rachel Hill
- Samuel Mitchell
- Tina Rogers



- Alice Smith
- Bob Johnson
- Catherine Liu
- David Lee
- Eva Adams
- Frank White
- Grace Brown
- Henry Clark
- Isabella Green
- Jack Walker
- Karen Harris
- Louis Martin
- Mia Young
- Nathan Scott
- Olivia King
- Peter Wright
- Quinn Turner
- Rachel Hill
- Samuel Mitchell
- Tina Rogers



# Conclusion

- From the bar and line chart given above it is evident that employee satisfaction is directly proportional to employee engagement.
- Thus the more engaging he/she is the more he/she will be satisfied.