Employee Data Analysis using Excel

STUDENT NAME:R.divya
REGISTER NO: 122201697
DEPARTMENT: B.COM CORPORATION SECURITARYSHIP
COLLEGE CHELLAMAL WOMEN'S COLLEGE

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PROJECT TITLE

Employee Performance Analysis using Excel

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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

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PROBLEM STATEMENT

- Detection of face masks in public spaces has become critical for ensuring public health and safety.
- Traditional methods of manual monitoring are inefficient and prone to errors.
- An automated system for face mask detection is needed to enforce mask-wearing policies effectively.

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PROJECT OVERVIEW

Employee performance analysis involves evaluating how well employees meet their job responsibilities and contribute to organizational goals. Key aspects include setting clear objectives, using performance metrics, conducting regular reviews, providing feedback, offering development opportunities, and recognizing achievements. The goal is to enhance productivity, improve job satisfaction, and align employee performance with organizational objectives.

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WHO ARE THE END USERS?

- **Employees**: Who receive feedback and development opportunities.
- **Managers**: Who conduct evaluations and provide feedback.
- **HR Professionals**: Who oversee the performance management process and ensure consistency.
- **Executives**: Who use performance data to make strategic decisions and drive organizational goals.

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OUR SOLUTION AND ITS VALUE PROPOSITION

Implement a comprehensive performance management system that includes clear goal setting, standardized metrics, regular evaluations, continuous feedback, and development plans.

Value Propositions:

1. **Enhanced Clarity**: *Employees understand expectations and how their performance aligns with organizational goals.*
2. **Improved Performance**: Regular feedback and development opportunities help employees improve and excel.
3. **Increased Fairness**: Standardized metrics and evaluations reduce bias and increase transparency.
4. **Better Decision-Making**: *Accurate performance data supports strategic decisions and optimizes talent management.*

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Dataset Description

A dataset for employee performance analysis typically includes:

1. **Employee Information**: Basic details like name, role, and department.
2. **Performance Metrics:** Quantitative and qualitative measures such as productivity rates, quality of work, and goal achievement.
3. **Evaluation Scores**: Ratings from performance reviews, feedback from peers and managers.
4. **Development Data:** Records of training, skill development, and career progression.
5. **Attendance and Punctuality:** *Data on work hours, absenteeism, and lateness.*

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THE "WOW" IN OUR SOLUTION

The "wow" in our solution is its ability to provide a comprehensive, transparent, and objective performance management system that aligns employee goals with organizational objectives, delivers actionable feedback, and supports continuous improvement and development. This leads to increased employee engagement, fair evaluations, and better overall performance.

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MODELLING

1.Convolutional Neural Network (CNN) Architecture:

1. CNNs are ideal for image classification due to their ability to capture spatial dependencies.
2. We've chosen a CNN architecture optimized for image classification tasks, ensuring efficient processing of input images.

2.Data Preprocessing:

1. Prior to training, our dataset undergoes preprocessing steps.
2. Techniques such as resizing, augmentation, and normalization are applied to ensure data quality and model robustness.

3.Training Process:

1. The dataset is split into training, validation, and testing sets.
2. We initiate the model parameters and select an optimization algorithm.
3. Training iterations and batch sizes are adjusted to optimize model performance.

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RESULT
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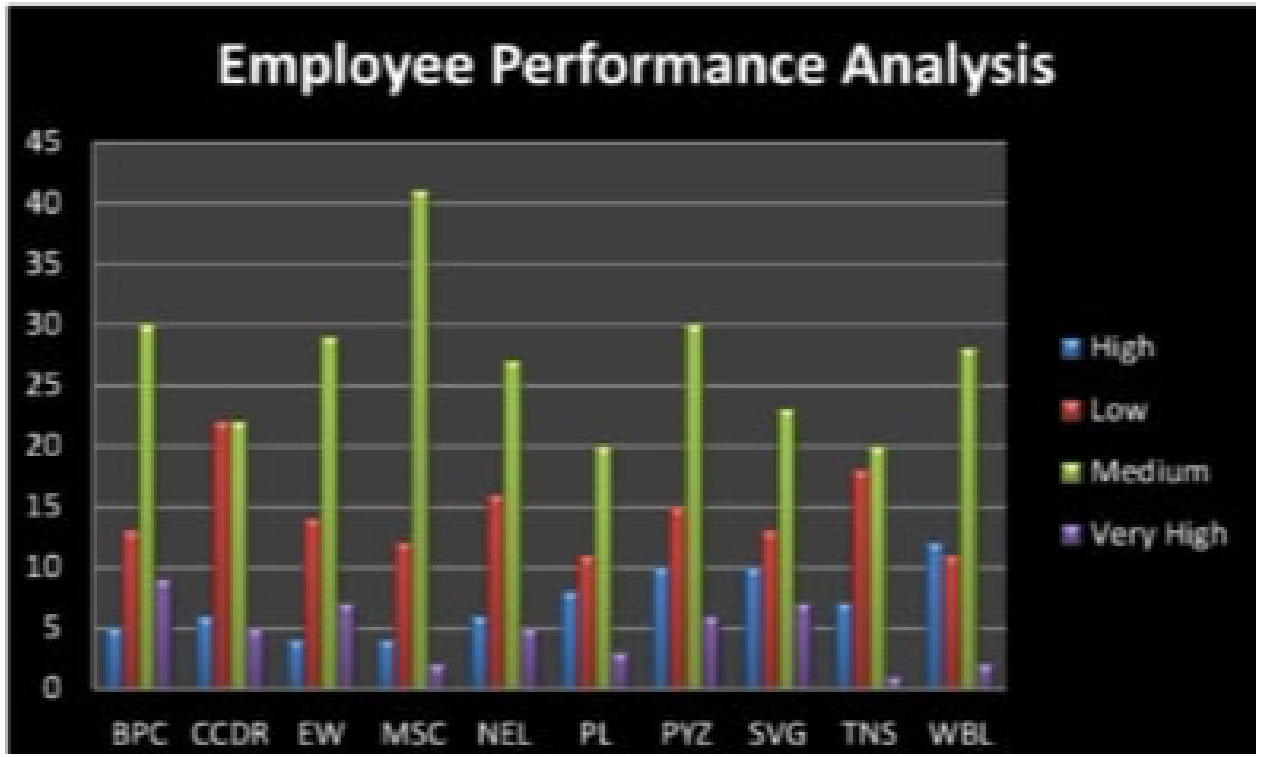

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conclusion

- Our project successfully developed a Convolutional Neural Network (CNN)-based system for face mask detection.
- Through meticulous data preprocessing and model training, we achieved promising results in accurately identifying individuals wearing face masks.

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