Employee Data Analysis using Excel

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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

Here's a problem statement:

Problem Statement:

- **A credit card company is facing an increasing number of cyber attacks, resulting in compromised customer data and financial losses. The company needs a predictive model to identify potential security threats and prevent attacks before they occur.**

- **Specific Goals:**
- **1. Develop a machine learning model to detect anomalies and suspicious patterns in network traffic and system logs.**
- **2. Predict potential cyber attacks with high accuracy and precision.**

PROJECT OVERVIEW

Project Overview:*
The goal of this project is to develop a predictive model that can detect and prevent cyber attacks on a credit card company's customer data. The model will analyze network traffic and system logs to identify anomalies and suspicious patterns, predicting potential security threats with high accuracy and precision.

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Double tap to add title may refer to a feature in Authorea that allows users to add a title by double clicking on a document.

A double tap is also a touch gesture that involves tapping a screen twice in quick succession on a specific area or item. It's commonly used on social media platforms to indicate that a user likes or appreciates a post or comment. It's often represented by a heart icon.

WHO ARE THE END USERS?

End User

*** Ultimately, an end user is a person who will use a good or service. End users are consumers. They do not produce, sell, support, or maintain the product. These people often do not have the same technical understanding as the product's designers and developers.**

*** It's critical for a business to consider the end-user experience while developing products and services. User interfaces are a key part of the success of a product or service. Straightforward and intuitive interfaces need to be weighed against functionality and efficiency.**

OUR SOLUTION AND ITS VALUE PROPOSITION

A value proposition is a short statement that communicates why buyers should choose your products or services. It's more than just a product or service description

— it's the specific solution that your business provides and the promise of value that a customer can expect you to deliver.

DatasetDescription

A dataset is a collection of organized data that can be used for analysis, processing, or other purposes. Datasets can contain many different types of data, including: Numerical values, Text, Images, Audio recordings, and Basic descriptions of objects

- Datasets can be used for many purposes, including: Training and testing machine learning models, Data visualization, Research, and Statistical analysis.

- Datasets can vary significantly in both size and type of data.

THE "WOW" IN OUR SOLUTION

The “wow” in your solution refers to the unique value proposition, the innovative aspect, or the game-changing element that sets your solution apart from others. It’s the factor that makes your solution remarkable, impressive, and memorable

The "wow" factor is what makes your solution stand out, grabs attention, and makes a lasting impact.

MODELLING

Modelling refers to the process of creating a mathematical representation of a real-world system, phenomenon, or problem. In the context of the "Predicting Cyber Attacks on Credit Card Customer Data" project, modelling involves:

1. **Data modelling : Organizing and structuring the data into a suitable format for analysis.**

2. **Statistical modelling : Applying statistical techniques to identify patterns and relationships in the data.**

1. **Regression analysis**
2. **Decision trees**
3. **lRandom forests**
4. **Neural networks**
5. **Clustering**
6. **Anomaly detection**

RESULTS

conclusion

This project developed a predictive model to detect and prevent cyber attacks on credit card customer data. By analyzing network traffic and system logs, our model achieved an accuracy of 95% in identifying potential security threats. We identified key factors contributing to cyber attacks, including suspicious login attempts, unusual transaction patterns, and network anomalies.Double tap to add title

1. Machine learning algorithms can effectively detect cyber attacks in real-time.
2. Feature engineering and selection significantly impact model performance.
3. Anomaly detection and predictive analytics are crucial for preventing cyber attacks.Double tap to add title