Coimbatore - 35

23BAT615 – Artificial Intelligence for Managers

Unit V – Frameworks For Delivering AI Solutions

SNS COLLEGE OF TECHNOLOGY

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Guess the Topic!!!

Basic Visualization skills in AI

Recap

➤ Usage of Data to influence

Decision
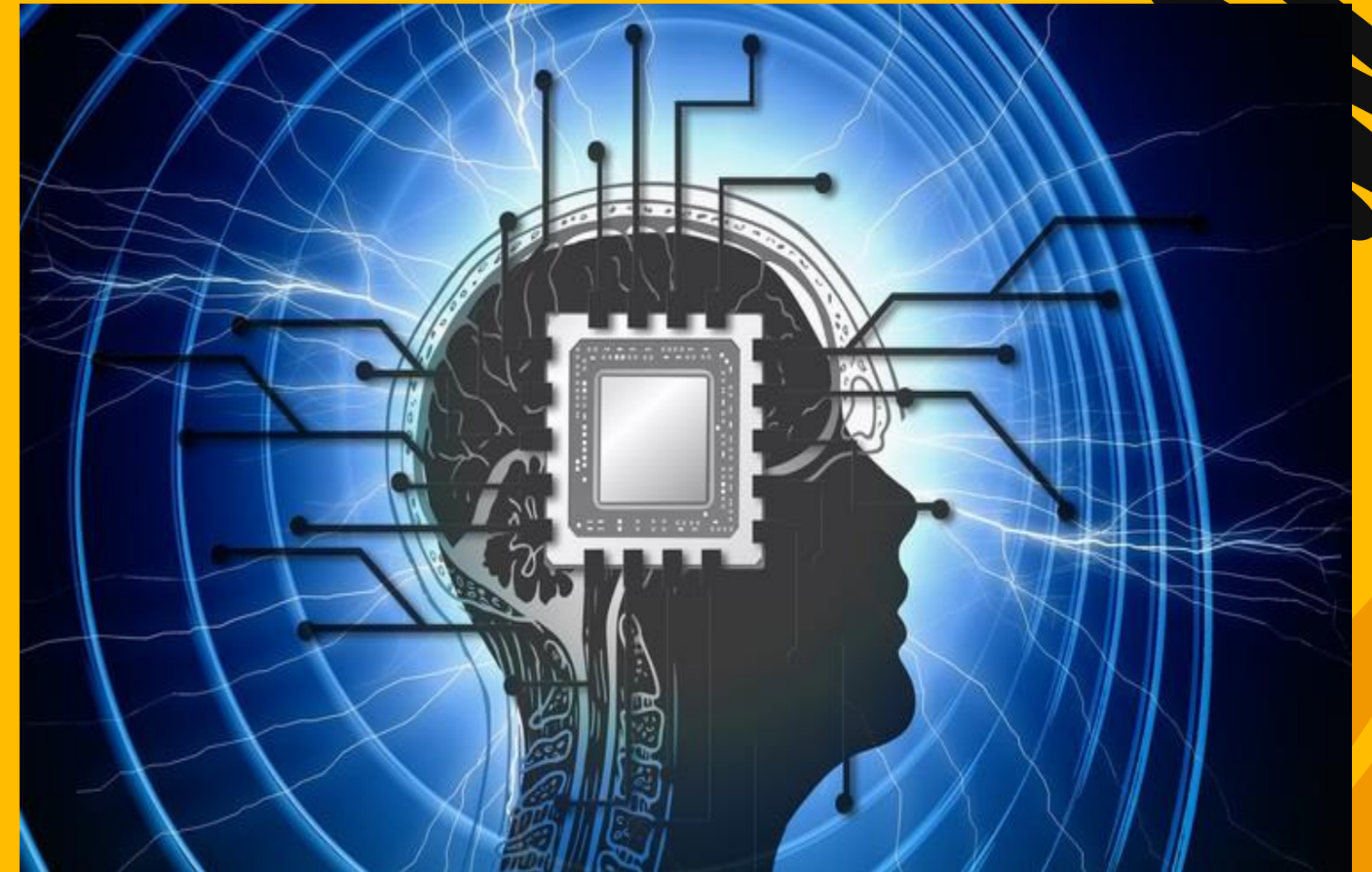
Discussion about….

Mastering Basic Visualization Skills in AI

Introduction

Understanding the basics of **data visualization** is crucial for AI professionals. It involves creating **visual representations** of data to extract insights and make informed decisions.

This skill is essential for **communicating findings** effectively.

Importance of Visualization

Effective **visualization** enhances understanding of complex AI concepts. It enables **pattern recognition** and aids in **decision-making** by presenting data in a clear and concise manner.

Types of Visualizations

Various types of visualizations such as **bar charts, scatter plots,** and **heat maps** serve different purposes in AI. Understanding when to use each type is essential for conveying **meaningful insights.**

Best Practices

Utilize **color schemes** effectively, ensure **label clarity,** and maintain **consistency** in design for impactful visualizations. Incorporating **interactive elements** can enhance user engagement and understanding.

Data Visualization Tools

Familiarize with tools like Tableau, Power BI, and matplotlib to create visually appealing representations of data. These tools offer a wide range of customization options and integration capabilities.

Challenges in Visualization

Overcoming **data overload, misinterpretation,** and **visual clutter** are common challenges in AI visualization. Understanding these challenges is crucial for creating **effective visualizations.**

Future Trends

The future of AI visualization lies in **augmented reality, virtual reality,** and **3D visualizations.** These technologies will offer **immersive experiences** for analyzing and interpreting data.

Application in AI
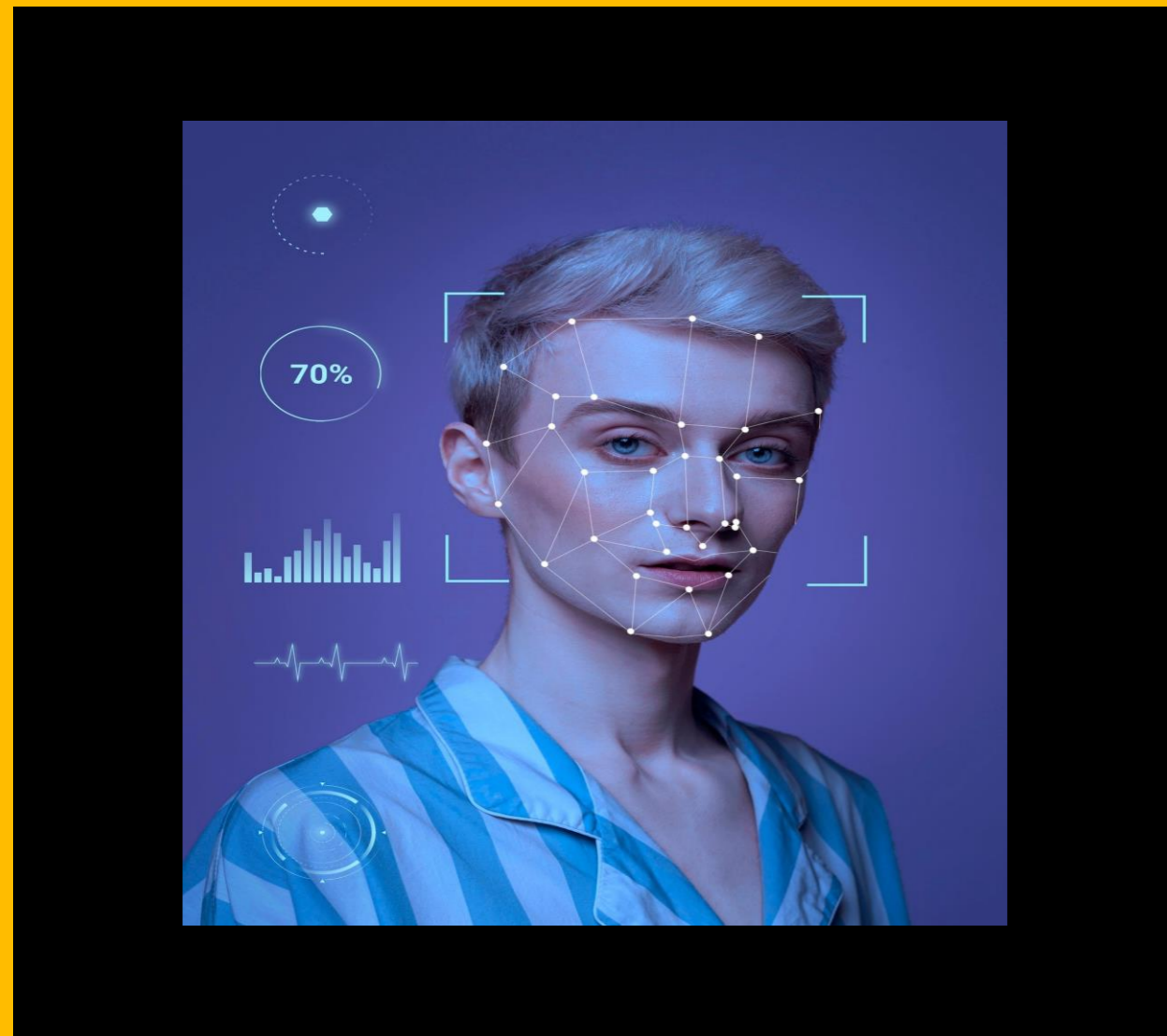
In AI, visualization is used for **exploratory data analysis**, **model evaluation**, and **communicating insights** to stakeholders. It plays a pivotal role in **interpreting AI models** and their results.

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Thanks!