



SNS COLLEGE OF TECHNOLOGY

Coimbatore - 35



23BAT615 – Artificial Intelligence for Managers

Unit V – Frameworks For Delivering AI Solutions

Redesigning Common Mind & Business Towards Excellence



Presented by

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Design Thinker

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Guess the Topic!!!

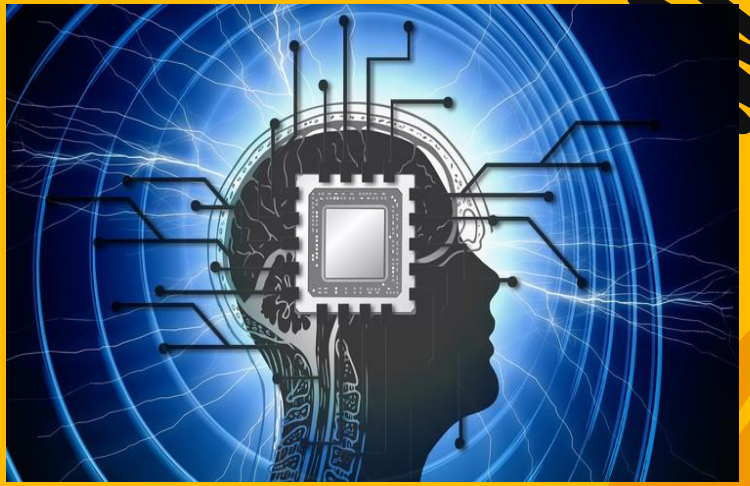
Visualization Technique





Recap

- Application of AI & ML in Business
- Data Governance
- Legal and ethical issues future of AI & ML in business





Discussion about....

Reason to study Visualization technique

- What is visualization?
- Science behind visualization
- Types of visualization techniques
- Integrating visualization into learning



APPLICATIONS of Data Visualization



Business

Track and analyze revenues and sales KPIs, and identify trends and patterns in customer behavior and markets.

Healthcare

Identify and flag medical problems and detect health problems or any anomalies.



Science & Research

Present complex data and results in a more accessible format.



Marketing

Visuals and reports help analyze customer patterns, surveys, social media trends, and market forecasting.

Journalism

Present data-driven stories to help readers understand and contextualize complex issues and events.



Government & Public Policy

Analyze and communicate complex data on public health, crime, economy, etc. and make more informed decisions.



Education

Enable students to understand and interpret data and develop critical thinking skills.

Real Estate

Map neighborhoods and analyze home price patterns, average market time, and consumer behavior.





What is Visualization?



Definition

Visualization is the practice of creating vivid mental images to simulate experiences, enhance learning, and achieve goals. It involves harnessing the power of imagination to create a detailed representation of a desired outcome.



Benefits for Students

Visualization helps students improve memory retention, enhance focus, and reduce anxiety by mentally rehearsing challenging situations, such as exams or presentations.



Visualization Process

The process involves relaxation, mental imagery, and sensory engagement to create a realistic and immersive mental experience.



ALL ABOUT INJECTABLES



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MICHELE LANDR

MSN, APRN, ANP-BC

The Science Behind Visualization

Neurological Impact

Engaging in visualization activates the same brain regions as actual experiences, strengthening neural pathways and reinforcing learning.

Memory Enhancement

Studies have shown that visualization can improve memory recall by creating strong associations between information and mental images.

Cognitive Performance

Visualization has been linked to improved cognitive performance, problem-solving skills, and creativity among students.



Types of Visualization Techniques

01

Guided Imagery

This technique involves following verbal instructions to imagine specific scenarios, such as relaxing on a beach or excelling in an exam.

02

Goal Visualization

Students visualize themselves achieving specific academic or personal goals, reinforcing their motivation and commitment to success.

03

Creative Visualization

Encourages students to create detailed mental images of their desired outcomes, incorporating sensory details and emotional engagement.



Integrating Visualization into Learning



Subject Applications

Visualization can be applied across various subjects, such as visualizing historical events, scientific processes, or mathematical problem-solving.



Interactive Learning

Utilizing visualization in group activities, presentations, and discussions can enhance student engagement and understanding.



Real-World Relevance

Highlighting real-world applications of visualization, such as in sports, arts, and career success, can inspire students to harness its power.



Knowledge Check

Which of the following visualization techniques is most suitable for showing the relationship between two continuous variables?

- A) Bar Chart
- B) Pie Chart
- C) Scatter Plot
- D) Heatmap

X Answer: C) Scatter Plot





Summary

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- What is visualization?
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References

- <https://splashbi.com/importance-purpose-benefit-of-data-visualization-tools/>





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Thanks!

