



Artificial Intelligence Course Content

- **Module 1: Introduction to AI**
 - 1.What is AI?
 - 2.Applications of AI?
 - 3.Artificial Intelligence Project Cycle
 - 4.Practical- Python Package- NUMPY

- **Module 2: machine learning**
 - What is machine learning?
 - Applications of machine learning
 - How machine learning works
 - Types of Machine Learning
 - Algorithms in Machine Learning
 - Programming with Python packages- PANDAS, MATPLOTLIB

- **Module 3: Anomaly Detection**
 - What is anomaly detection?
 - Applications of anomaly detection.
 - Python Package- Seaborn

- **Module 4: Computer Vision**
 - What is computer vision?
 - Applications of Computer vision?
 - How images are stored?
 - Programming with OpenCV

- **Module 5: Natural Language Processing**
 - What is Natural Language Processing?
 - Applications of Natural Language Processing.
 - Lemmatization & Stemming
 - NLP- Terminology

- **Module 6: Data mining and challenges and risks with AI**
 - Data mining
 - Challenges and risks with AI

- **Module 7: Understand responsible AI**
 - The characteristics of AI



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