

Artificial Intelligence Course Syllabus

1. Decoding Artificial Intelligence

- Decoding Artificial Intelligence
- Meaning, Scope, and Stages Of Artificial Intelligence
- Three Stages of Artificial Intelligence
- Applications of Artificial Intelligence
- Image Recognition
- Applications of Artificial Intelligence - Examples
- Effects of Artificial Intelligence on Society
- Supervises Learning for Telemedicine
- Solves Complex Social Problems
- Benefits Multiple Industries
- Key Takeaways

2. Fundamentals of Machine Learning and Deep Learning

- Fundamentals Of Machine Learning and Deep Learning
- Meaning of Machine Learning
- Relationship between Machine Learning and Statistical Analysis
- Process of Machine Learning
- Types of Machine Learning
- Meaning of Unsupervised Learning
- Meaning of Semi-supervised Learning
- Algorithms of Machine Learning
- Regression
- Naive Bayes

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- Naive Bayes Classification
- Machine Learning Algorithms
- Deep Learning
- Artificial Neural Network Definition
- Definition of Perceptron
- Online and Batch Learning
- Key Takeaways

3. Machine Learning Workflow

- Learning Objective
- Machine Learning Workflow
- Get more data
- Ask a Sharp Question
- Add Data to the Table
- Check for Quality
- Transform Features
- Answer the Questions
- Use the Answer
- Key Takeaways

4. Performance Metrics

- Performance Metrics
- Need For Performance Metrics
- Key Methods Of Performance Metrics
- Confusion Matrix Example
- Terms Of Confusion Matrix
- Minimize False Cases
- Minimize False Positive Example
- Accuracy
- Precision
- Recall Or Sensitivity
- Specificity
- F1 Score

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- Key Takeaways

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