

**SYLLABUS FOR**

**ARTIFICIAL INTELLIGENCE (AI)**

# 1. SYLLABUS OVERVIEW

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Prerequisite: Engineering/Science Degree or equivalent

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| No | Topic | Objective | Duration |
| 1 | Overview | * AI vs Machine Learning vs Deep Learning * Data Scientist vs AI Engineer * AI trend today | 30 Minute |
| 2 | Basic | * Machine Learning Lifecycle * Data as vector * Model-centric vs Data-centric * Goodness of dataset | 60 Minute |
| 3 | Learning 1 | * How machine “learn” * Problem statement in machine learning * How much data is needed for machine learning | 60 Minute |
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| 4 | Learning 2 | * Bias, variance and error * How good is your AI model? | 45 Minute |
| 5 | Learning 3 | * ML algorithms use case * Interpretability vs flexibility of ML algorithms | 45 Minute |
| 6 | Use Case | * Data Science use-case * Face recognition * Sentiment Analysis on text * Story telling in AI/ML analysis | 60 Minute |
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Table 1: Topic overview and its objective for AI teaching syllabus

Domain : earth science , epidemiology, covid, cybersecurity