

Artificial Intelligence Foundation

(one day course)

What you'll learn

In this basic course on artificial intelligence, participants will be provided an overview of AI, and explained on how it can be used for an effective and efficient decision making for an organization. The course will be a mixture of engaging short lectures with examples and use cases to help participants take their first steps in the exciting field of Artificial Intelligence.

Course Outline:

1- Introduction to AI and Machine Learning

- Latest news in AI
- AI Applications
- AI Online Demo
- What is AI
- What is Machine Learning & Deep Learning
- AI Impact on Jobs
- Types of AI
- Data Science(DS), Artificial Intelligence (AI), and Machine Learning (ML)
- Data vs. Information vs. Actionable Insights
- Exploratory Analytics: Concept, Usage, and Techniques
- Predictive Analytics: Concept, Usage, and Techniques
- Prescriptive Analytics: Concept, Usage, and Techniques
- What is Data Democratization?

2- Bringing AI to your Organization

- How to ask a right questions in a data science project?
- How to prepare the right data for your data analytics project?
- As a manager, How to guide your data science teams to success?
- The whole pipeline of a data science project
- The iterative nature of data analytics projects
- How to identify the project objectives in your organization using SMART methodology?

3- Supervised Learning - Classification

- Step by Step on Classification Problem
- Classification Models
- Online Classification Practice
- Hand on practice on weka
- Hands on practice on python

4- Supervised Learning - Regression

- Step by Step on Regression Problem
- Hands on practice on python

5- Unsupervised Learning - Clustering

- Clustering Models
- Hands on practice on python

6- Neural Network

- What is Neural Network
- Online Neural Network Playground