

AI and DEEP LEARNING

Description: Artificial Intelligence (AI) is a perfect example of how sometimes science moves more slowly than we would have predicted. In the first flush of enthusiasm at the innovation of computers it was believed that we now finally had the tools with which to crack the code of the mind, and within years we would see a new race of intelligent machines. We are older and wiser now. The first flush of enthusiasm is gone, the computers that impressed us so much back then do not impress us now, and we are soberly settling down to understand how hard the problems of AI really are.

DAY 1:

Forenoon Session: Machine learning fundamentals

- Machine learning Algorithms Workflow
- Machine learning Use cases
- Machine learning Algorithms
- Real Time Examples for Machine Learning
- Introduction to Machine learning programming platforms

Afternoon Session: Artificial Neural Networks

- Perceptron Learning
- Activation Functions
- Error Calculations
- Overfitting & Underfitting
- Optimization of Machine Learning Models

DAY 2:

Forenoon Session: Deep Neural Networks

- Deep Forward Neural Networks
- Regularization in Deep Learning
- Implementation of Deep Neural Networks
- Applications

Afternoon Session: Convolutional Neural Networks

- Layers in CNN
- Optimization of Deep Learning Models
- Implementation of CNN
- Applications of CNN