

AI / ML

Day 1:

- Introduction to Artificial Intelligence and its Applications
- Basics of Machine Learning
- Types of Machine Learning: Supervised, Unsupervised, Reinforcement Learning
- Hands-on: Setting up Python and Jupyter Notebooks
- Basics of NumPy and Pandas for Data Manipulation

Day 2:

- Data Gathering and Pre-Processing
- Supervised Learning Techniques
- Unsupervised Learning Techniques
- Introduction to NLP and its Applications
- Text Preprocessing Techniques
- Building a Text Classification Model

Day 3:

- Introduction to Computer Vision
- Image Preprocessing Techniques
- Building an Image Classification Model
- Introduction to Convolutional Neural Networks (CNNs)
- Ethical Considerations in AI
- Group Project: Participants work on a simple AI project
- Project Presentations and Feedback