

Artificial Intelligence

Introduction to Artificial Intelligence

- Why do we need to study AI?
- Applications of AI
- Classification of AI
- AI Concepts, Terminology, and Application Areas
- Difference AI and ML
- Working and concept of AI

Environment (IDE) and Software

- Introduction to IDE
- Use of IDE
- Introduction to python IDE
- Introduction to Anaconda
- Introduction to Jupiter Notebook
- Introduction to Octave

Flow of Algorithms

- Fundamental concepts in genetic algorithms
- Use of IDE
- How IDE works?
- How data, code Conversion Takes place

Python

- Introduction to Python
- Different type of Python IDE
- Why Python
- Installation of Python
- Application of Python
- Different types of python Libraries

Python for Data Science and AI:

- Lists and Tuples
- Sets
- Dictionaries
- Loops
- Functions
- Objects and Classes

Introduction of Anaconda

- Anaconda
- Why anaconda
- Application of anaconda
- About Jupyter notebook
- Practicing python in Anaconda
- Performing data analysis
- Advantage to Anaconda

Introduction of Opencv

- OpenCV
- Why Opencv
- Use and application
- Installation and use
- Workflow

Data Mining: Clustering Techniques

- Introduction to Data Mining

Introduction Advance level Data Learning Techniques

- Types of Learning
- Supervised Learning
- Unsupervised Learning
- Machine Learning System Design

AI using IBM

- Watson AI Overview
- Watson AI Services

Practical

- Introduction to algorithm
- Clustering models
- Prediction Models
- Designing Face recognition
 - Working of detector
 - About Opencv and its Working
 - Understanding the Algorithm
 - Implementing the Algorithm
 - Image conversion.
 - Testing (error,Accuracy) of Model
- Hierarchical algorithms project
- Covid19 Analysis on world map