

ARTIFICIAL INTELLIGENCE AND MACHINE LAERNING

Unit-I

Understanding Artificial Intelligence (AI), Artificial Intelligence terminology Branches of AI - Machine Learning (ML), Deep Learning, Reinforcement Learning, Merits and Demerits of AI
Ai Real life applications , Introduction and demonstration of Artificial Intelligence Tools , their benefits and limitations

Unit-II

First Contact with Machine Learning, Machine Learning terminology and tools, Types of Machine Learning Algorithms and their applications, Supervised Vs Unsupervised Learning,
Setting of Python environment, Introduction to Python Numpy, Pandas, Matplotlib, Seaborn and Scikit-Learn

Unit-III

Chatbot Assistant System using python ML. Face Recognition Using Python, JARVIS in python
Concepts of Artificial Neural Networks, Neural Network Terminology, Back Propagation Algorithm, Genetic Algorithm , Nature Inspired Algorithms

Unit-IV

Computer vision & AI using python, OpenCV, Installing OpenCV for python in windows, Working with images-Introduction, Feature detection and description, and working with videos, Case Studies.