



AI & Machine Learning Training Course

CURRICULUM

Module I – Artificial Intelligence

- Artificial Intelligence Fundamentals
- Intelligent Agents
- Uninformed Search
- Constraint Satisfaction Search
- Heuristic & Meta-Heuristics
- Adversarial Search
- Parallel Search
- Genetic Algorithms
- Emergent Behavior
- Search Engines

Module II – Python Programming

- Python Programming Fundamentals
- Variables & Data Types
- Operators
- Conditional Statements
- Looping
- Functions
- Lists and Tuples
- Arrays and Sets
- Dictionaries
- Lambda

Module III – Object Oriented Programming

- Object Oriented Programming Fundamentals
- Defining Classes & Objects
- Object Properties
- Object Methods
- Self Parameter
- Class Constructors
- Class Inheritance
- Multilevel Inheritance
- Multiple Inheritance
- Super Function

Module IV – Machine Learning

- Machine Learning Fundamentals
- Machine Learning Algorithms
- Machine Learning Tools
- Canonical Learning Problems
- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning
- SciKit Learn
- Matplotlib
- Pandas

Module V – Machine Learning Algorithms

- Linear Regression
- Multi Variable Regression
- Gradient Descent
- Feature Scaling
- Logistic Regression
- Decision Trees
- Random Forests
- Naive Bayes
- Clustering
- SVM

Module VI – Natural Language Processing

- Natural Language Processing Fundamentals
- Language Computing
- Language Models
- Text classifications
- Computational Linguistics
- Morphology
- Parsing
- Semantic Interpretation
- Semantic Aspects
- Pragmatics

Module VII – Deep Learning

- Deep Neural Network Fundamentals
- Convolutional Neural Network (CNN)
- Recurrent Neural Network (RNN)
- Distributed TensorFlow
- Deep Belief Network
- Semantic Hashing
- Building Deep Learning Models,
- Troubleshoot Deep Learning Models
- Unsupervised Transductive
- Transfer Learning

Thank You!

Thank you for downloading our curriculum!

We're excited to be part of your learning journey. Feel free to reach out if you need more information.

Contact Us



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