



# Data Science and Machine Learning with AI

## HOTTEST JOB OF 21ST CENTURY

### About Us:

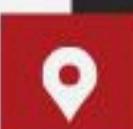
GlobeCreator is a leading training institute focused on delivering high-quality education in Java, Python, Data Science, Machine Learning & AI. We emphasize hands-on training, real-time industry projects, and expert-led sessions to ensure learners develop practical, job-ready skills.



+91 93568 89109



<https://www.globecreator.com/>



Survey No 127/3, Plot No 12, Mayur Colony,  
Karve Road Kothrud, Pune, 411038



Learning Format	6 month course
online/offline t	Live Classes
Career support	1 to 1 Mentor Support



Certification On Completion

Unlock Your Potential with Our  
Comprehensive Training Courses

# Program Syllabus

## Core Python

- Introduction to Python
- Play with Variables and Data Types
- Fundamentals of Python Expressions
- Conditional Statements
- Data Structure: List
- Data Structure: Tuples
- Loops and Iterations
- Designing Patterns
- Data Structure: Sets
- Data Structure: Dictionary
- Functions in Python
- Structure Code with OOP Principles
- Regular Expressions (Regex)
- Optical Character Recognition
- Handle Error and Exceptions
- Advance Python

## Advance Python

- Package Management in Python
- Data Manipulation with Pandas Arrays in Python
- Statistical Analysis with Numpy
- Data Visualization
- Working with Data Files
- Advance Data Manipulation Techniques
- SQL - Structured Query Language

## SQL - Structured Query Language

- Introduction to SQL
- Data Query Basics
- DDL - Data Definition Language
- Constraints in SQL
- DML - Data Manipulation Language
- DTL Essentials
- Joining Tables
- Aggregate Functions
- Understanding Clauses
- Statistics

## Machine Learning

- Introduction to Machine Learning
- Supervised Machine Learning
- Regression Analysis
- Classification Techniques
- Unsupervised Machine Learning
- Underfitting and Overfitting in ML
- Hyperparameter Tuning
- Balancing Precision

## Deep Learning

- Introduction to Deep Learning
- Basics of Neural Network
- Artificial Neural Network
- Deep Learning Frameworks
- Convolutional Neural Network
- Recurrent Neural Network
- Generative Adversarial Network

## **AI - Artificial Intelligence**

- Fundamentals of Artificial Intelligence
- Problem Solving and Search Algorithms
- Knowledge Engineering in AI
- Application of game theory
- AI in Sentiment Analysis
- AI in Core Business
- Deep Dive with Generative Model
- Transfer Learning
- Fine Tuning Models
- Graph Neural Networks
- Social Network Analysis

## **Advance Excel**

- Introduction to Excel
- Conditional Formatting
- Data Analysis Functions
- Pivot Tables
- Data Validation
- Excel in Data Science

## **R-Programming**

- Introduction to R-Programming and R-Studio
- Play with Variables and Data Types
- Fundamentals of Python Expressions
- Conditional Statements
- Loops and Iterations
- Vector and Matrix in R
- Arrays, List, and DataFrames in R
- Strings and Manipulation
- Machine Learning in R

## **Statistics**

- Introduction to Statistics
- Descriptive Statistics
- Measure of Despersion
- Graphs / Charts in Statistics
- Probability Fundamentals
- Inferential Statistics
- Hypothesis Testing
- CHI-Square Testing

## **BI - Business Intelligence**

- Introduction to BI tools
- Introduction to Tableau
- Basic Data Operatations
- Graphs in Tableau
- Sets Tableau Calculations
- Interactive Dashboards
- Case Studies