urbancode>

Training & Solutions

DATA SCIENCE
SPECIALIST COURSE

About Course

Embark on a transformative journey with Urbancode's Data Science Certification Program. Crafted by seasoned experts, this online course delves into foundational and advanced data science concepts. From mastering statistical analysis to machine learning algorithms, participants gain hands-on experience, empowering them with the skills needed to excel in the dynamic field of data science.

Primary Aspect

- 60 hrs Instructor-Led Training
- 30 hrs Project & Exercises
- Mentor Support
- Placement Assistance

Why should you choose this course?

Empowering careers

Diverse career paths in data science, including roles such as data analyst, machine learning engineer, data scientist, and more.

Industry Relevance

Familiarize yourself with in-demand tool Python and popular libraries like NLTK, SpaCy and Scikit-Learn.

Data-Handling Proficiency

Learn to manipulate and preprocess data effectively, a fundamental skill in the data science workflow.

High Demand

Acquire the highly sought-after skills in data analysis, machine learning, and statistical modeling that are in high demand across industries.

Module 1: Introduction to Statistical Analysis & Concepts

● Introduction to Probability Theory
● Data Analysis: Measures of Central Tendency & Dispersion
● Introduction to Distributions (Normal, Poisson, Binomial)
● Hypothesis Testing (Null & Alternate Hypothesis)

Module 2: Linear Regression

● Basics of OLS Regression
● Assumptions & Features of Linear Regression
● Introduction to Gradient Descent & its loss function
● Gradient Descent ve Linear Regression
● Other Gradient Descent Algorithms
● Other Regression Algorithms: Ridge & Lasso Regression

Module 3: Classification

● Logistic Regression
● Naive Bayes & Conditional Probability
● K Nearest Neighbour
● Bagging & Boosting Algorithms: Decision Trees, Random Forest, XGBoost

Module 4: Unsupervised Learning

● Introduction to Clustering
● K Means Clustering
● Hierarchical Clustering
● DBScan Algorithm

Module 5: Text Mining

● Intro to Text Mining & Information Retrieval
● Parts of Speech Tagging
● Sentiment Analysis
● Recommender Systems

Module 6: Advanced AI & ML Algorithms

● Introduction to Deep Learning & Neural Networks
● Convoluted Neural Networks & Recurrent Neural Networks
● Introduction to Reinforcement Learning
● Basics of Gen AI

Module 7: Introduction to Analytics Industry

● Opportunities in Analytics & AI (India & Abroad)
● Companies and Job Profiles in Analytics
● Intro to Kaggle & GitHub
● New trends in Analytics
● Tips & Tricks for successful transition into Analytics

Module 8: Live Project

● Project Discussion
● Problem Statement & Solution Design
● Doubts resolution
● Best Practices & Recommendations