

ADACODE
Solutions

DATA SCIENCE

About Us

Adacode Solutions excels in innovative software solutions, specializing in IoT, Robotics, Cloud, Data Science, and more. Trust us as your partner for cutting-edge solutions, shaping the future of technology.

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We provide English training for effective language proficiency.



Soft Skill Sessions

We offer soft skill sessions for holistic professional development.



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DATA SCIENCE



Who Should Join This Course

- ➡ Students who are looking for their 1st Job
- ➡ if You want to build a Strong Foundation in Mathematics and Statistics
- ➡ Anyone who is interested in becoming a data scientist

Course Details

Duration: 6-8 Months

7 Modules

Unlimited Lab Access

Final Project

Project Certificates

Course Certificates

English Training Sessions

Monthly Mock Interview Sessions

IEEE Certified Projects

Course Content

- Introduction to Data Science
- Statistics and Probability
- Programming for Data Science
- Machine Learning Fundamentals
- Advanced Machine Learning
- Data Science Applications
- Capstone Project



Syllabus

Module 1: Introduction to Data Science

- Overview of data science and its applications
 - Role of a data scientist
- Tools and technologies in data science
 - Exploratory Data Analysis (EDA)
 - Data cleaning and preprocessing
 - Data visualization

Module 2: Statistics and Probability

- Measures of central tendency and dispersion
 - Probability distributions
 - Hypothesis testing
 - Confidence intervals
 - Regression analysis

Module 3: Programming for Data Science

Introduction to Python for Data Science

- Python basics
 - NumPy and Pandas for data manipulation
 - Jupyter Notebooks
- Data cleaning and preprocessing with Pandas
- Data transformation and merging

Module 4: Machine Learning Fundamentals

- Supervised and unsupervised learning
- Types of machine learning algorithms
 - Linear regression
- Decision trees and random forests
- Support Vector Machines (SVM)
 - K-means clustering
 - Hierarchical clustering
- Principal Component Analysis (PCA)

Module 5: Advanced Machine Learning

- Model Evaluation and Hyperparameter Tuning
 - Cross-validation
- Grid search for hyperparameter tuning
 - Model evaluation metrics
- Feature Engineering and Model Deployment
 - Feature scaling and selection
 - Model deployment using Flask
- Model interpretation and explainability

Module 6: Data Science Applications and Capstone Project

- Case Studies and Industry Applications
- Real-world applications of data science
 - Case studies in various domains (finance, healthcare, etc.)

Ethical Considerations in Data Science

- Privacy and bias in data science
 - Ethical responsibilities of a data scientist

7. Capstone Project

- Final project development
- Presentation and peer review