



CodeForIndia

TRAINING PROGRAMS

For

Data Science and AI

Training Programs

CodeForIndia has designed training programs to offer Data Science, AI and Machine Learning trainings to the students. Students gain exposure programming, to solving real world problems and various industry solution development activities. It aims to provide the students with the knowledge and skills required to perform in the industry.

About the Courses

The course sessions are structure to cover the basics to advanced Data Science and Machine Learning through either Python or R being the medium of scripting. The courses range from the foundational basics required, to advanced machine learning and industry-oriented business problem-solving. Through these courses one will learn the basics of data preparation and manipulation, data visualization, statistical analysis, machine learning, text analysis and deep learning. Every course is end-to-end and forms the pre-requisite for the next course in the series. The most engaging piece about the courses is the fact that they are designed to be a minimum of 70% hands-on and 30% theory based which gives the students the necessary exposure required to grow practically.

Continuous Learning and Development

At CodeForIndia, the classroom sessions are designed to foster a continuous learning and development environment. We conduct interactive quiz sessions, hackathons, team-based projects to keep the students engaged and excited to learn. We believe the next decade requires a spurt of learning in Data Science and Artificial Intelligence and we want to be one of the big movers in the development of students at an early age.

Further, we provide a list of curated courses that we believe would be the best starting point for students in the second to fourth year of college since it would help them build up a foundation to grow over the next few years. We also expand our course list to provide for new courses based on what the industry requires and are customizable to the needs of the students.

Title: Data Analytics with Python (PY-002)

Prerequisites - This course is for beginners to intermediate coders. It would be good to have completed the PY-001 course prior to this.

Course Duration - 40 hours

Course Fee - INR 5000

Course Content:

Module 1: Understanding data

- Introduction to python packages for data manipulation
- Importing and exporting data
- Importing datasets and understanding data
- Basics of analyzing the data

Module 2: Data Wrangling

- Dealing with missing values in python
- Data Formatting and conversions in python
- Data Wrangling
- Working with Pandas

Module 3: Exploratory Data Analysis

- Performing descriptive statistics with Python
- Correlations, Scatter-plots and charts with matplotlib in python
- Understanding data analysis with respect to various business scenarios

Module 4: Model Development for Analysis

- Linear Regression and Multiple Regression Models
- Model Evaluation Methods
- Model selection

Module 5: Data Visualization

- Understanding basic metrics and KPIs
- Dashboarding using Tableau (Provided Student License Available)