



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: Basics of Python (PY-001)

Prerequisites - This course is for beginners. No prior programming knowledge is required. Everything will be introduced in class.

Course Duration - 20 hours

Course Fee - INR 2500

Course Content:

Module 1: Get Ready - Install all required software and libraries and understand the Python IDE

Module 2: Data Types

- Number, String , List, Tuple, Dictionary, Set, Dataframes

Module 3: Operators

- Arithmetic Operators
- Compound Operators
- Comparison Operators
- Membership Operators
- Logical Operators
- Identity Operators

Module 4: Control Structure

- Conditional
- Loop
- Iterating Over Multiple Sequences
- Break & Continue

Module 5: Functions

- Function syntax
- Return value
- Return multiple values
- Passing argument values
- Default argument values
- Variable argument sequence

Module 6: Modules, Packages and Libraries

- Modules
- Packages
- Python Standard Library
- Install Third Party Packages
- Anaconda Packages