www.startindia.org

Artificial Intelligence & Computer Programming Course with Python

AI

Begins on
7th January 2023

Ends on
3rd December 2023

Get in Touch

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Dr. Subin Kizhakkeveettil (Course Director)

"KNOWLEDGE IN THE FIELD OF AI (ARTIFICIAL INTELLIGENCE) AND COMPUTER PROGRAMMING PYTHON IS AN ADDITIONAL QUALIFICATION TO OBTAIN JOBS AT NATIONAL AND INTERNATIONAL LEVEL".

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towards excellence

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ST THOMAS ACADEMY FOR RESEARCH AND TRAINING
KOZHIKODE

Topics to be covered

Module 1   Introduction to Programming with Python I

Learn basic programming with Python, one of the most versatile and widely used programming languages! You'll first learn core programming concepts and fundamental Python syntax by writing code. You'll then learn how to write Python functions, manipulate strings and lists, and refactor your code to improve its structure and make it more modular.

Module 2   Introduction to Version Control & other developer workflows

We will cover how task management, version control and bug tracking are done in high-performance technology teams

data science. You will also learn what AI realistically can--and cannot--do. Furthermore, you will configure your programming environment to work on AI problems with Python.

Module 5   Jupyter Notebooks & other AI tools

Learn how to use the key tools for working with data in Python, such as Jupyter Notebooks.

Module 6   Project Work & Submission

Once Module 4 is completed, you will start work on a project within a team with two other students that will be assigned by START.

Timing & Duration

- Over 100 hours of time to be spent on building real-world skills as a computer developer with a fundamental understanding of Artificial Intelligence

- On Saturdays from 1pm to 4pm starting on 7th January 2023

Q&A
15 mints.

Lecture
60-90 mints.

Practicals
60 mints.

Module 3   Introduction to Programming with Python II

Advance your skills with Python. You will build on your understanding of fundamental Python and learn some more advanced skills, including how to work with files on your computer's disk, how to retrieve data using a web API, and how to use Object-Oriented Programming (OOP) to create your own classes, objects, and methods. Understand how you can leverage open-source libraries to quickly add advanced functionality to your code. Apply Object-Oriented Programming to ensure that your code remains modular, clear, and understandable.

Module 4   Introduction to Artificial Intelligence

You will learn about the foundations of AI and the meaning behind common AI terminology, including neural networks, machine learning, deep learning, and

Pre Requisites

There are no prerequisites for this program aside from basic computer skills. You should feel comfortable performing basic operations on your computer (e.g., opening files, folders, and applications, copying and pasting).

About the Lead Instructor

The lead instructor, Renji John, is an AI practitioner and CEO of a deep-tech company based in the Netherlands that is focussed on AI & Robotics. He has extensive experience working in international companies in both technical & commercial roles in multiple countries.