



**Certified** career



# **Python**

# **Programming**

## **Course Curriculum**





# Mission

The first step in achieving a career in Web development, machine learning, data science, and more! This program is great for beginners.

# Description

In this tutorial, you will learn the basics of Python , as well as the best programming tools. You will learn how to represent and store data using Python, and use conditions and features to control the flow of your programs. You will use the power of complex data structures such as lists, sets, dictionaries, and responses to store related data sets. You will define and document your custom functions, as well as write scripts. It will be supported by building real-world projects that utilize these data structures and best practices for project development.

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Python Programming





# Skills You Will Learn

Git and Git Hub , Problem Solving Skills , Python Skills , Command Line , Project Design , Utilising Package Designers , HTTPS Requests , API etc

Estimated Time	Modules	Project or Target	Learning Outcome
Day 1 & 2 (4 Hours)	<b>Module 1</b> Python Syntax, Introduction to Git and Github, Hackerank	Hackerank Problems	Problem Solving Skills, Introduction to Online judges and Python Syntax
Day 3 & 4 (4 Hours)			
Day 5 & 6 (4 Hours)			
Day 7 & 8 (4 Hours)			
Day 9 & 10 (4 Hours)	<b>Module 2</b> Functional Programming	CLI Game	Functions, Command-Line, Project Design
Day 11 & 12 (4 Hours)	<b>Module 3</b> Package Managers and some popular packages (NumPy, matplotlib, pandas and folium)	Interactive crime maps in python	Utilising Package managers
Day 13 & 14 (4 Hours)	<b>Module 4</b> Internet and APIs, PIL Networking	Pokemon Image Plotting (Pok-e-Search), Certificate Generation, Facebook Posting CLI	HTTP Requests, APIs, JSON and Image Manipulation, Postman, Facebook API
Day 15 & 16 (4 Hours)			
Day 17 & 18 (4 Hours)	<b>Module 5</b> Web Scraping and Intro to Flask	Scraping IMDb	Scraping, BeautifulSoup, Flask, Virtual Environments
Day 19 & 20 (4 Hours)	<b>Module 6</b> Flask	Showcase IMDb movie cards on Flask Website	Flask

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boost your IT career.



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