



Python Fundamentals & Machine Learning 18 Aug - 07 Oct 2018

Duration: 16 Lectures | 03 hours per day

Fees: INR 15,000/-

Start Date: 18-08-2018 **End Date:** 07-10-2018

Training Mode: Classroom / WebEx Online

Taxes Applicable: GST @ 18% = INR 2700/-

Total Fees: INR 17,700/-

Bank Details

- Account Name: Devanshu Shukla,
- Account Number: 55142333064
- Bank Name: State Bank of India,
- Branch: Rama Market, Pitampura, IFS Code: SBIN0050403
- PayTM, Google Tez, PhonePe: 9654825370

Taxation Details

- GSTIN: 07EGLPS3074K1ZR
- Legal Name: DEVANSHU SHUKLA
- Trade Name: HACKVEDA

Takeaways

1.) Hackveda One2One account for each participant which includes:

- Pre-Requisite Installation Videos
- Lecture Videos
- Documented Resources
- International Publication Books
- Source Codes
- Online query support post workshop for 01 year

2.) Assessment test will be conducted and all participants scoring above 50% will get Certificates accredited from ANSI National Accreditation Board



Syllabus

Python Fundamentals

- An Overview of Python
- The Philosophy of Python
- Python 2 vs Python 3
- Installing Python 3 on Windows
- Installing Python 3 on Linux
- Python IDEs
- Whitespace in Python
- Read, Evaluate, Print, Loop
- Hello World
- User Input
- Modules and Imports
- The int Type in Python
- The float Type in Python
- Basic Math Functions in Python
- The bool Type in Python
- The str Type in Python
- The bytes Type in Python
- The bytearray Type in Python
- The list Type in Python
- The tuple Type in Python
- Slicing in Python
- The range Type and Function in Python
- The set Type in Python
- The dict Type in Python
- The While Loop in Python
- The For Loop in Python
- The if Statement in Python
- Function In Python
- Built-In-Function
- Function - Challenge
- Data Containers - List
- Data Containers - Tuple
- Data Containers - Dictionaries
- Numpy Array
- Numpy Array - Identity Matrix
- Numpy - RandInt Linspace Arange
- Numpy Array - Reshape
- Taking 2D Input From User
- Array List Conversion and Slicing



- Pandas - Part 1
- Pandas - Reading From Database
- Pandas Part - 2
- Pandas Part - 3
- Nested Dictionaries
- Pandas - Join and Merge Operation
- Python - Matplotlib
- Filter operations on Data Frames

Machine Learning

- Introduction to Machine Learning, Differences and Frameworks
- Linear Regression using Student Test Grade Prediction System
- Polynomial Regression using Student Test Grade Prediction System
- Multivariate Regression on Housing Dataset and Multicollinearity reduction
- Search String Term Frequency Plot
- Create and Integrate Python Machine Learning Model with Web Application
- Machine Learning Preprocessing and Transformation
- Machine Learning - Data Mining using Linear Regression
- Machine Learning Interpretation and Evaluation of Linear Regression Model
- Machine Learning on Housing Data Set Part 1
- Machine Learning on Housing Data Set Part 2
- Machine Learning on Housing Data Set Part 3
- Machine Learning on Housing Data Set Part 4
- Machine Learning on Housing Data Set Part 5
- Logistic Regression Part - 1
- Logistic Regression Part - 2
- Object Detection Using Cv2 Pt 1
- Object Detection Using Cv2 Pt 2