



## Objective

To learn the Python language, libraries and the tools from the ecosystem for learning AIML

## Schedule

**Duration:** 50 Hours/ 8 days

- ✓ Preparatory Work: Preview videos + Pre-reading (60 minutes)
- ✓ Interactive Online Lecture: 16.30 - 18.00hrs (90 minutes)
- ✓ Coding Practice: 120 minutes
- ✓ Code Discussions: 8.30 - 10.30hrs (90 minutes)
- ✓ Mini Projects of 14+ hours

#No	Dates	Timings	
		Code Discussions	Interactive Online Lecture
1	05-18-2020	08.30 - 10.00hrs	16.30 - 18.00hrs
2	05-19-2020		
3	05-20-2020		
4	05-21-2020		
5	05-22-2020		
6	05-25-2020		
7	05-26-2020		
8	05-27-2020		

## Coverage Details

### Day 1

- \* Introduction to Python Language
- \* Scalar Data Types
- \* Loops, Conditions, and Functions

### Day 2

- \* Strings and Lists
- \* Dictionaries and Sets
- \* Iterators

### **Day 3**

- \* Higher order functions
- \* Collections.Counter
- \* numpy

### **Day 4**

- \* OOP in Python

### **Day 5**

- \* Data Munging and Visualization
- \* Pandas
- \* Matplotlib
- \* Random Library

### **Day 6**

- \* SciPy
- \* Matrices
- \* Regression
- \* Simulation

### **Day 7**

- \* Mini-project

### **Day 8**

- \* Mini Project