Day 01	Python Programming Basics Variable Types Operators (Arithmetic. Relational, Assignment, Logical.Bitwise) Decision Making Repetition (Loops) Data Structures (Lists, Tuples, Dictionaries) Functions	Quiz from Python Programming Basics
Day 02	Python Modules and Contributed Modules (Matplotlib, Numpy and Pandas) for data handling and preprocessing Introduction to python modules and application Inbuilt essential python modules (datetime, math, os and etc) Creating own customized modules	Exercise from numpy for data processing
Day 03	Image Processing with OpenCV Pixelwise Operations Drawing Functions Color Spaces Point Processing and Operations Thresholding Color Segmentations Neighborhood Operations and Filters Morphological Operations Video Loading and Processing Image Transformations Geometric Transformations Contour Operations	Plan Height Detection using color segmentation and contour operations
Day 04	Machine Learning with Scikit Learn Introduction to Machine Learning, Supervised Machine	Character Recognition using K Nearest Neighbor Algorithm

Day 05	Learning Identifying Features and Labels Classification and Regression Problems Machine Learning Algorithms in detail (Regression, Classification, Clustering, Dimensionality Reduction Algorithms) Introduction to K Nearest Neighbor Classifier Euclidean Distance Choosing the optimal K value	Character Recognition Web Ass
Day 05	 Web framework development with Flask Introduction to Python Web-frameworks Introduction to Python Backend development with Flask Flask Routes, URL bindings and HTTP Methods Template Rendering and Static Files Request Objects, Data Transfer, and File uploading Loading the trained Neural Network models and Machine Learning Models into the backend Deployment of Python backends in local server 	Character Recognition Web App using Flask

- Lifetime Access to Recorded Lectures and resources
- Certificate Of Completion
- Stating on 4th January (5Days Live Workshop) 6-9 PM
- Link to enroll <u>instamojo.com/digitaltanmay</u>