



Inversion Consultancy LLP

Organizing Entity



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ARTIFICIAL INTELLIGENCE COURSE CURRICULUM

01

Induction Class (Optional)


1 Hour

02

Introduction to Python ▶ Python fundamentals


1 Hour + 15
Min Doubts

03

Introduction to Python ▶ Data types, list, dictionary Array, string operations


1 Hour + 15
Min Doubts

04

Introduction to Python ▶ Conditions and loops


1 Hour + 15
Min Doubts

05

Introduction to Python ▶ Inbuilt and user defined functions
IO, Excel and DB operations


1 Hour + 15
Min Doubts

06

Introduction to Python ▶ Error Handling


1 Hour + 15
Min Doubts

07

Introduction to Data analysis ▶ Pandas and visualization


1 Hour + 15
Min Doubts



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08

Statistics and Probability



Introduction to probability & distribution central limit theorem, hypothesis testing



1 Hour + 15 Min Doubts

09

AI: Introduction



**Introduction to AI and its Applications
Introduction to Python Hands on session Python**



1 Hour + 15 Min Doubts

10

Getting Started with Deep Learning



**BASIC introduction Neuron
Deep learning scopes**



1 Hour + 15 Min Doubts

11

Getting Started with Deep Learning



**Evolution of Deep Learning
Application of Deep Learning**



1 Hour + 15 Min Doubts

12

Getting Started with Deep Learning



Difference between Machine Learning and Deep Learning



1 Hour + 15 Min Doubts

13

Getting Started with Deep Learning



**Deep Learning Techniques Types of Learning
Artificial Neural Networks
Introduction to ANN**



1 Hour + 15 Min Doubts

14

Artificial Neural Networks



The Neuron Diagram



1 Hour + 15 Min Doubts



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15

Artificial Neural
Networks



Neuron Models & Neural Network
step function



1 Hour + 15
Min Doubts

16

Minor Project Discussion



1 Hour + 15
Min Doubts

17

Artificial Neural
Networks



**Functioning of Neurons Activation
functions Gradient Descent,
Stochastic Descent, ramp function,
sigmoid function, Gaussian function**



1 Hour + 15
Min Doubts

18

Artificial Neural
Networks



Perceptron, multilayer network,
backpropagation, introduction to
deep neural network Installing
Libraries



1 Hour + 15
Min Doubts

19

Artificial Neural
Networks



**Creating ANN Python Training the
model**



1 Hour + 15
Min Doubts

20

Convolutional
Neural Networks



**Introduction to OpenCV What is
OpenCV Basics of Image Processing**



1 Hour + 15
Min Doubts

21

Major Project Discussion



1 Hour + 15
Min Doubts



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22

Convolutional
Neural Networks



**Learning Basic Image
manipulations Introduction
to CNN**



1 Hour + 15
Min Doubts

23

Convolutional
Neural Networks



CNN Institution



1 Hour + 15
Min Doubts

24

Convolutional
Neural Networks



**Convolution Operation Pooling,
Flattening Building a CNN using
Python Training the model**



1 Hour + 15
Min Doubts