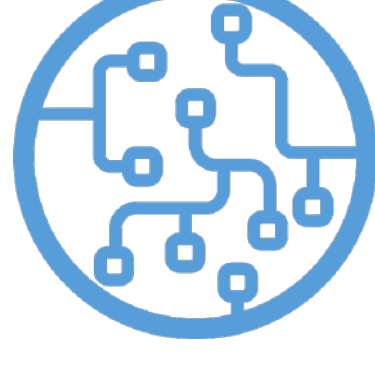




01

AI and ML

with PYTHON

Experience Level: **BEGINNER**Number of Classes: **50**Age Range: **ALL AGES**

01

What is Artificial Intelligence?

- Concept of AI.
- Some Real Life examples.
- Google experiments.
- Models of AI using Teachable Machine.
- Learn about the neural network.

02

What is Machine Learning ?

- Basic understanding of machine learning.
- Real life examples.



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02

03

ChatBot Development

- Learn what ChatBot is and how it works using AI & ML.
- Learn about Intents, Entities,
- Contexts and other concepts of
- DialogFlow.

04

VoiceBot Development

- Learn how to create a voice bot.
- How to use it, and change it's speech patterns.

05

Concept of Search in AI

- What is Search ?
- Terminologies related to Search.
- About Solution.
- Node.
- Approach.
- Types of Search.
- Concept of Tic-Tac-Toe.
- Some activities related to the concept of Reasoning.

06

Knowledge as a concept of AI

- What is Knowledge and how it is useful in Artificial Intelligence.
- Knowledge based agents.
- What is Reasoning ?
- Propositional Logics.
- Logical Connectives.
- Some activities related to the concept of Knowledge.



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03

07

Fundamentals of Python

- Turtle.
- Printing.
- Greeting and input.
- Strings.
- Variables.
- Operators.
- String Indexing.
- Slicing

08

Understanding Program Flow Control

- Conditional statements.
- If, elif, else blocks.
- Loops.
- For loops and while loops

09

Lists, Tuples & Dictionaries

- List operations.
- Iterating over lists.
- Sorting.
- Nesting.
- Unpacking tuples.
- Functions.
- Function definitions.
- Parameters.
- Sets.
- Input and Output.



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04

10

File Handling.

- Turtle.
- Printing.
- Greeting and input.
- Strings.
- Variables.
- Operators.
- String Indexing.
- Slicing

11

Understanding Program Flow Control

12

Google Colab

13

Projects

- Learn how to create a basic Calendar using Python.
- Create Tic-Tac-Toe using python with the concepts of AI.
- Create a program called FACE MASK DETECTOR with the concepts of AI.



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