

# Python & AI

## Grade 6-8

### COURSE HIGHLIGHTS !

- Live 32 Hours of Sessions
- 32 hours Self Learning Session
- Fundamental of Python Programming
- Create Graphics and visual Effects
- Understand complex computer science concepts by intuitively applying Computational thinking
- Computer Vision & Machine learning
- Build Real World Application like object detection, Facial features detection, Animal detection etc.
- LMS Access - Pre-recorded videos, Documents, Assignments, Codes

 Book your  
**FREE Demo now!**



## COURSE REQUIREMENTS

- Basic Understanding Of Block Based Programming
- A Mac or Windows Computer
- Access to the internet



# WHAT YOU'LL LEARN IN THE COURSE



Fundamental of  
Python Programming



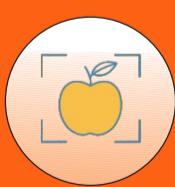
Turtle module for  
Graphics designing



Computational Thinking



Face, Eyes, Nose and  
Smile detection



Object detection using  
computer vision



Custom  
Model using  
Machine learning



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Design the basic shapes

Design the Logo of  
Olympics

Functions in Python



Design half Moon



Design your Dream Car



Pattern design



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MySelf



Make your own Quiz

Making an area  
calculator

Advance Data types



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Loop in Python



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Create List and Sum



Largest number  
of the list



Check for Party invitations  
/Guest wishlist



Fibonacci series



Factorial



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Prime number



Create your Graph



AI - mask Detection



AI - Animal detection



AI - Shape Detection



ML - Journey to School



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ML - Titanic survival prediction



ML - Zombie Escape Prediction



Introduction to NLP



ML- ChatBot



Make me happy



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Smart Classroom



Sentiment Analysis-NLP



Corona Patient  
Detection



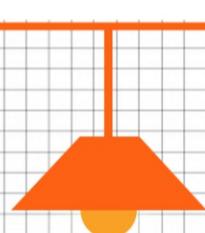
Students Project



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## HOW THIS COURSE WILL HELP YOUR CHILD



- **CIC approach**

Consumer to innovator to the creator

This course aims to turn the student from a consumer of technology to the creator of technology.

- **Activity-Based learning**

Learn the required programming concepts by performing activities

- **Project - Based Learning**

Learn the required programming concepts by performing activities

Instead of a theoretical and traditional way of learning, students will build projects during the course.

- **Our PBL approach will help student in**

Allows students to acquire key knowledge & skills through the development of projects that respond to real-life problems

Develop critical thinking

Retain the concept

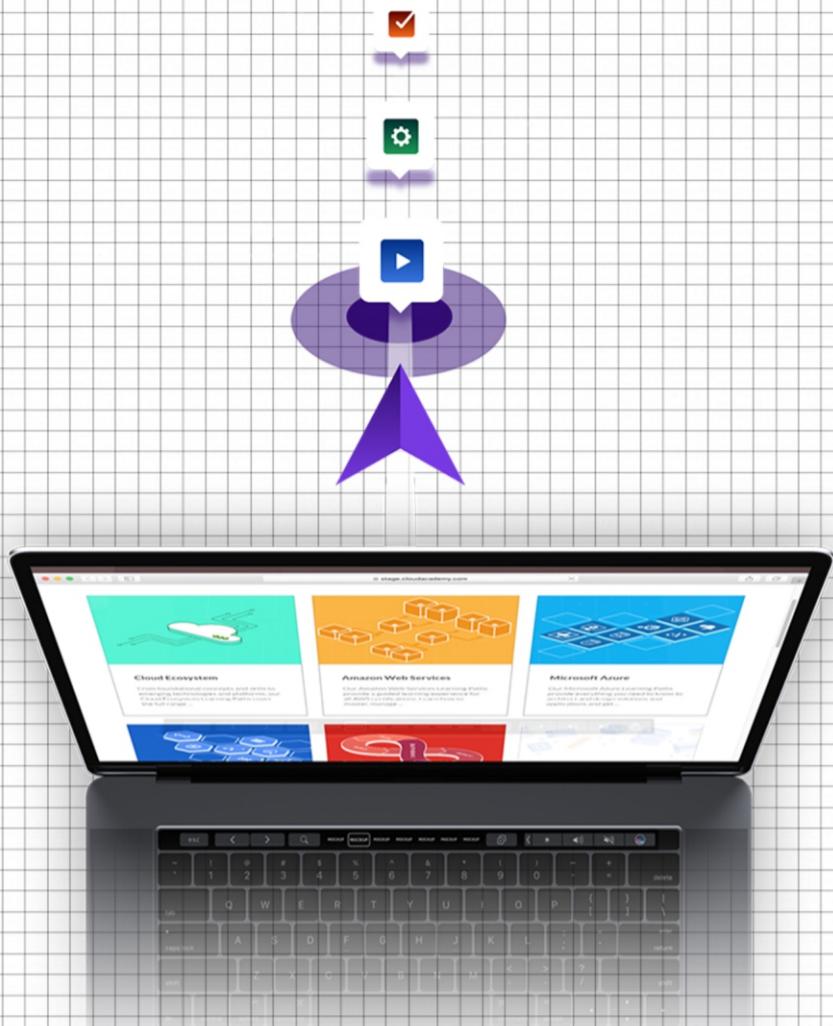
Integration of different concepts

# COURSE OUTLINE

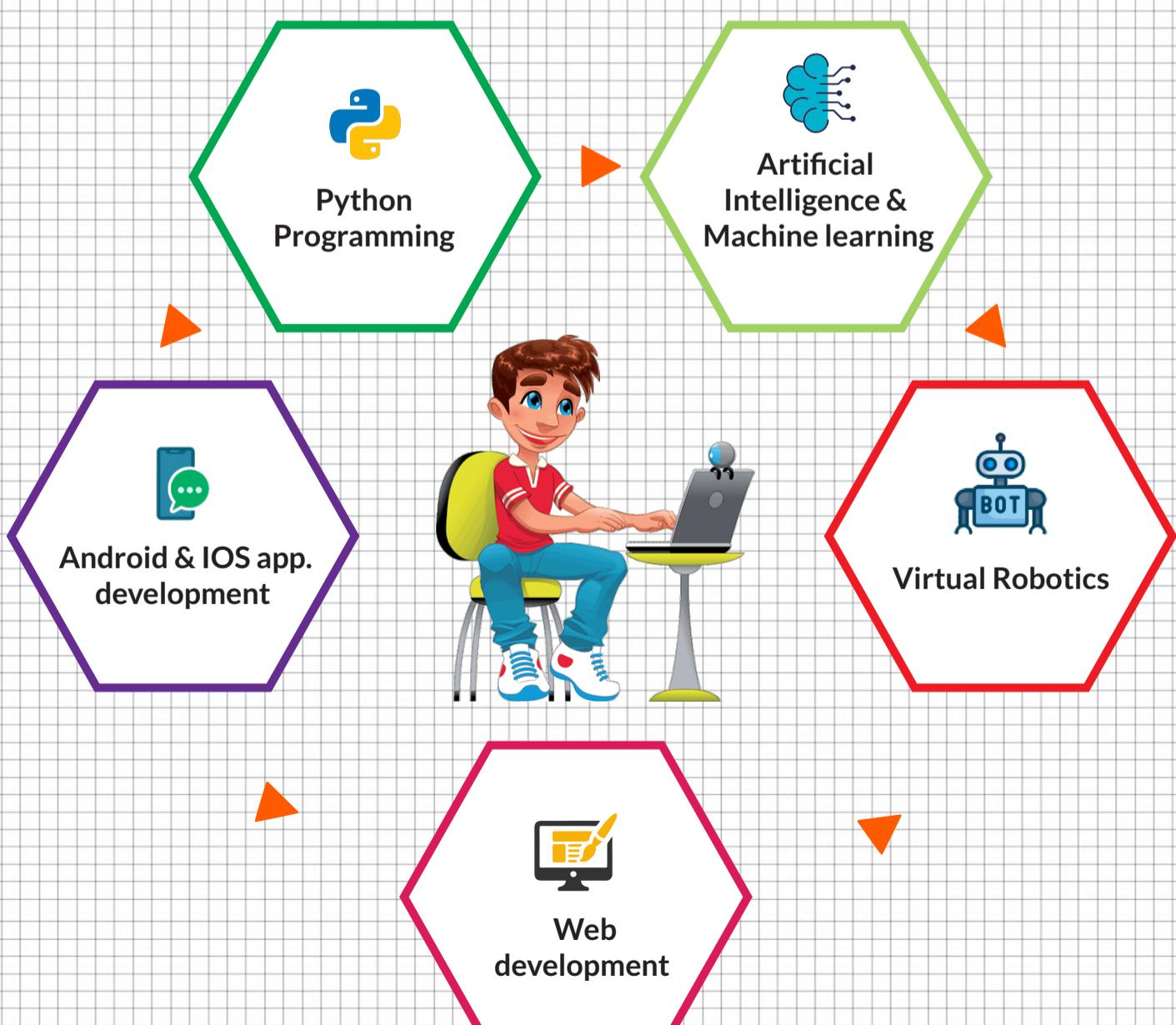
Session Number	Unit	Activity Name
1.		Design the basic shapes
2.		Design the Logo of Olympics
3.		Functions in Python
4.		Design half Moon
5.		Design your Dream car
6.		Pattern design
7.		MySelf
8.	Beginner	Make your own quiz
9.		Making an area calculator
10.		Advance Data types
11.		Loop in Python
12.		Create List and Sum
13.		Largest number of the list
14.		Check for Party invitations / Guest wishlist
15.		Fibonacci series
16.		Factorial

# COURSE OUTLINE

Session Number	Unit	Activity Name
1.		Prime number
2.		Create your graph
3.		AI - mask detection
4.		AI - Animal detection
5.		AI - Shape detection
6.		ML - Journey to school
7.		ML - Titanic survival prediction
8.	Intermediate	ML - Zombie escape prediction
9.		Introduction to NLP
10.		ML- ChatBot
11.		Make me happy
12.		Smart classroom
13.		Corona Patient Detection
14.		Sentiment Analysis-NLP
15.		Students project
16.		



## OTHER COURSES



## **FOR MORE COURSES VISIT:**

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