

Play, Learn and Grow

# Empowering Kid Knowledge

Class 10





## WEB DEVELOPMENT

### HTML

Learn the basic building blocks of the web and create an HTML document.

### CSS

Learn basic CSS styling

### Java Script

Introduction to JavaScript with DOM manipulation

### Cloud VS Local

Weighing the pros and cons of Cloud vs Local Storage

### News Website Project

Applying our skills, we learn to hands-on code a News Website



## APP DEVELOPMENT

### Intro To Web Apps

Overview of Web Apps and its type

### Intro To Flutter

Using Flutter as a tool to create apps

### Intro To DART Programing

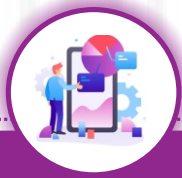
Programming in DART language

### Creating First Project in Flutter

Applying the concepts learnt in the course,we learn to make our personal project in Flutter

### Intro To Basic Widgets & Layout

Widgets for making an APP



## DATA SCIENCE

### Intro To Data Science

Overview of Data Science and its workflow

### Probability & Statistics

Getting our Basics Strong with Probability and Statistics

### Python and Fundamental Libraries

Exploring Python and it's fundamental libraries

### Machine Learning Libraries

Mastering Machine Learning libraries to assist us in projects

### Feature Engineering

Understanding the process of extracting features from data



## C++

### Intro To C++

Learning about C++

### Operators & Expression

Understanding the concepts of Operators to assist in our journey of learning C++

### Flow Of Chart

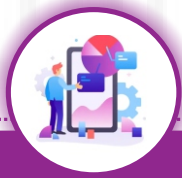
Understanding concepts of Flow of Execution of C++ code

### LOOPS

Learning about repeated execution of a block of code

### Arrays and Functions

Exploring Arrays and Functions to enhance our C++ code



## DATA SCIENCE

### Types Of Learning In Machine Learning

Algorithms in Machine Learning

### Evaluation of Model

Evaluation of our machine learning model



## C++

### Strings

Overview of Strings as a concept

### Concepts Of Pointers

Learning about Pointers

### Object Oriented Programming

Understanding OOPs Concepts in C++



## INTERNET OF THINGS

### Intro To IoT And Networking

Understanding IoT Fundamentals

### Event Handling

Handling IoT events using practical examples

### Arduino And Their Programming

Introduction to Arduino and its related concepts

### Live Project

IoT Workshop

### Basic Logic Gates

Learning Logic Gates (AND, OR, XOR etc)

### Integrated Circuits

Understanding Microprocessors and Microcontrollers in depth



## PYTHON

### Getting Started

Basics of Python with environment setup

### Get Your Basics Right

Introducing Python Fundamentals

### Data Types

Dealing with Data in Python

### Objected Oriented Programming

Understanding OOPs Concepts

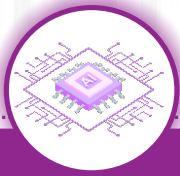
### Algorithms

Understanding Algorithms

### Workshop

Python Workshop





## ARTIFICIAL INTELLIGENCE

### Intro To AI & Data

Diving into the field of Artificial Intelligence (AI) and it's related concepts

### Intro To Machine Learning

Understanding concepts of Machine Learning with practical examples

### Intro To Data Science

Overview of concepts in Data Science

### AI Terminologies

Understanding the wide range of AI related terminologies to enhance our understanding about AI

### Case Study

Case Study: Sofia The Robot



## NETWORKING

### Intro To Computer Network

Overview of Computer Networks

### Networking

Learning about network types, devices, topologies and protocols

### Mobile Communication Technologies

Going in-depth and understanding Mobile Communication Technologies

### Internet, Web and Internet of Things

Going in-depth and understanding Mobile Communication Technologies



## CYBER SECURITY

### Intro To Cyber Security

Overviewing the concepts in Cyber Security

### Firewall

Learning the know-how of Firewall

### Types Of Vulnerability and Prevention

Grasping the essential concepts of Vulnerability and Prevention



## GAME DEVELOPMENT

### Intro To Game Development

Understanding Game Development Concepts

### Game Design Concepts

Using Scratch- Basic to Advanced concepts

### Intalling Unity

Using Unity for Game Development

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