

Play, Learn and Grow

Empowering Kid Knowledge

Class 8





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

Workshop

Project Showcase



APP DEVELOPMENT

Intro To Web Apps

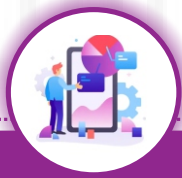
Overview of Web Apps and its type

Intro To Flutter

Using Flutter as a tool to create apps

Intro To 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

Evaluation Of Model

Evaluation of our machine learning model



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



INTERNET OF THINGS

Intro To IoT And Networking

Understanding IoT Fundamentals

Microprocessors & Computer

Learning about Microprocessors to enhance our IoT knowledge

Arduino And Their Programming

Introduction to Arduino and its related concepts

Event Handling

Handling IoT events using practical examples

Electrical & Electronic Devices

Expanding our knowledge to everyday electrical devices and its applications



PYTHON

Getting Started

Basics of Python with environment setup

Get Your Basics Right

Introducing Python Fundamentals

Intro to OOPs

Understanding OOPs Concepts



INTERNET OF THINGS

Basic Logic Gates

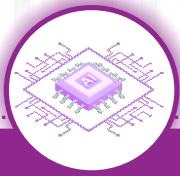
Learning Logic Gates
(AND, OR, XOR etc)

Integrated Circuits

Understanding Microprocessors
and Microcontrollers in depth

Workshop

Alarm clock



ARTIFICIAL INTELLIGENCE

Intro To AI & Data

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

Intro To AI Domains

Expanding our knowledge to everyday electrical devices and its applications

Case Study

Atlas Boston Robotics



NETWORKING

Intro To Computer Network

Overview of Computer Networks

Types Of Network

Exploring different types of Networks like WAN, LAN etc

Web Services

Exploring Different Web Services to learn in depth about Web



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

Computer Protection Basics

Getting our basics right to protect our computers from unwanted attacks



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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