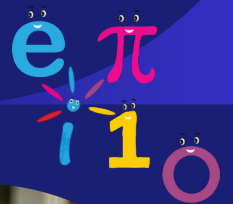




Explore Learn Create



AI & Coding4AI
For Grades 4 to 10



Group A – Grade 4,5,6

✔ Week 1

- Introduction to AI
- Machine Learning Basics
- Types of Machine Learning: Supervised vs. Unsupervised
- Pattern Recognition: How does AI use patterns to identify faces, spam emails, or even health conditions?
- AI in Self Driving Cars
- Project: Build Your Own Image Recognition Model

✔ Week 2

- What is Generative AI?
- AI Art & Images Using Midjourney
- AI Music & Audio
- AI Video Generation
- How Midjourney Works?
- Project: Create a short movie using multi model GenAI Tools

✔ Week 3

- What is NLP?
- What is a prompt? Why does wording matter?
- How ChatGPT Works
- Project: Build a Chatbot

✔ Week 4

- Improve Academics with AI Tools
- Project: Build No Code App Powered by Generative AI

✔ Week 5

- What is Python? Print your first message
- Variables & Data Types
- Simple Math with Python
- Strings & Text Fun
- Project Day: My Python ID Card

✓ Week 6

- If-Else Statements
- Comparison Operators
- Nested If & Else
- Input from User
- Project: Build a Mini Quiz

✓ Week 7

- While Loops
- For Loops
- Lists
- Loops with Lists
- Project: Fruit Basket Game

✓ Week 8

- Functions – Basics
- Functions with Parameters
- Combine All: Input + Condition + Loop + Function
- Final Project Idea: “My First Smart Assistant”



Group B – Grade 7,8,9, 10

✓ Week 1

- Introduction to AI, intro to AI platforms such as Chat GPT and NotebookLM
- Understanding Data : why its needed, how its gathered, World of Big Data. Basics of AI in working – Data , Patterns and Algorithm
- Machine Learning – What it is , Types of ML. (Supervised , Unsupervised , Reinforcement)
- Applications of AI around the Industries , AI Self Driving Cars, Pattern Recognition – Spam mails, Netflix
- Project: Building a Supervised ML Model.

✓ Week 2

- What is GenAI , How is Gen AI different from the Traditional AI ?
- How is GenAI Built , AI Art & Images Using Midjourney
- AI Music & Audio
- AI Video Generation, How AI can make voices that sound like real people
- How Midjourney Works?
- Project: Create a short movie using multi model GenAI Tools

✓ Week 3

- What is NLP?Text Processing and preprocessing;Syntax and Parsing ; Semantic analysis
- What is a prompt? Why does wording matter?
- How ChatGPT Works, What are transformers?
- Project: Build a Chatbot

✓ Week 4

- Improve Academics with AI Tools
- Project: Building an AI website

✓ Week 5

- What is Python , Why python – First code : Variables
- Data Types : List , tuples and sets , Operators
- if – else Statment , Match , For and While
- Sample Problems : Simple math with Python and condition problems
- Project: Number Guessing Game ,Todo List Manager

✓ Week 6

- Loops – For , While Loops
- Input from users : Small problems
- Functions
- Combine all input : Loops , if-else , functions
- Project: Build Quiz App

✓ Week 7

- Python – Classes and Objects
- Python – OOps Concepts – intro
- Inheritance and polymorphism
- Project: Fruit Basket Game

✓ Week 8

- Algorithms – Basic algorithms
- Algorithms – complex Algorithms
- Problem Solving
- Final Project: “My First Smart Assistant”

