



The Explorer package is perfect for students who wish to delve into coding and computer courses, aiming to create basic applications. No prerequisites are required to enroll in any of these programs.

## BLOCKCODE AI/ML & DS

9-12 Yrs | 24 Classes | 3 Months | 50 Minutes | Certificate of Achievement

This gives students a simple foundation on machine learning and how to build Artificial Intelligence apps using Block Code.

- Computational Thinking
- Sequentially Thinking
- Logical Thinking & Problem Solving

### LESSON PLAN

Class	Topic	Class	Project
1	Introduction to BlockCode	Introduction to BlockCode platform	Simple Apps
2	Introduction to Machine Learning	Basic concepts	Quick Draw
3	Innovations in AI	Exploring the application of AI	Simple Project
4	Patterns in Data	Decision Making	Finding Patterns (
5	Classification Models	How computers can separate data to make a decision	Separating the data into groups with an activity
6	Introduction to AI Lab	Students will dive into an AI tool	Akinator Game Activity
7	Importing Models in App lab	Importing their models into App Lab	Customize your app
8	Model cards	To evaluate a model card	Medical Priority App
9	Numerical models	Accuracy calculator and computer decision	zombie predictions
10	Numerical data in AI lab	Data visualization	Numerical data activity
11	customizing app	Model cards to use new elements	Driver Alert System
12	AI code of ethics	Principles that address AI	Ethics & AI
13	Train the model in AI lab	Make a Machine Learning App	Mini Project
14	Survey Planning	Survey Planning (Different Country)	Creating Google form
15	Cleaning and viewing	Creating CSV files. Uploading it and check the accuracy	Survey Data in AI lab
16	Troubleshooting Models	Running the models and checking the issues	App designing & Coding
17	Creating an app	Creating an app	Mini capstone project
18	Design an AI app	Issue Statement, Data Collection, Collect & Reflect, Designing	
19	CAPSTONE PROJECT	Develop an AI app	CAPSTONE AI App

\*Lesson plan indicates the topics and projects and should not be read as topics covered per class.