

AI Development – 4-Week Program (2 hours per class)

Class 1: Introduction to AI & Development Skills

- Overview of Artificial Intelligence: What it is and real-world applications
- Understanding AI models: Types, use cases, and how they work
- Development skills for AI: Overview of programming, data handling, and workflow
- Tools for AI development: Python, Node.js, and related frameworks

Class 2: Fundamentals for AI Development

- Basics of Linux for developers: Command-line essentials, file management, and environment setup
- Introduction to JavaScript for AI: Syntax, data structures, and functions
- Node.js fundamentals: Setting up a server, asynchronous programming, and working with modules
- Preparing your development environment for AI projects

Class 3: Hands-On Project (Part 1)

- Start a **real-world AI project** (guided step-by-step)
- Data collection and preprocessing
- Implementing AI models in practice
- Writing code for basic AI functionality

Class 4: Hands-On Project (Part 2) & Wrap-Up

- Complete the real-world AI project

- Testing and debugging your AI model
- Deploying AI applications (local or cloud)
- Q&A, review, and next steps for further learning

Outcome by the End of 4 Weeks

- Understanding AI concepts and models
- Practical development skills in Linux, JavaScript, and Node.js
- Hands-on experience with a real-world AI project
- Confidence to start building and deploying simple AI applications