

# NEXT-GEN REACT + AI



AN ISO 9001:2015 CERTIFIED ACADEMY

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# What You'll Explore?

A Beginner-Friendly, Hands-On Program Designed To Take Learners From Zero Coding Experience To Building And Deploying AI-Powered Web Applications Using React And Google Gemini API.

Students Will Gain Strong Foundations In Web Development, React Fundamentals, And AI Integration, All Without Complex Backend Setup.



# Course Structure

- ➔ 4 Months Course
- ➔ 2 Months Internship
- ➔ 100% Placement Assistance

## By the end of the course, you will learn :

- Understand How Websites And Web Apps Function
- Write Clean And Modular Javascript And React Code
- Build Modern, Interactive Frontend Applications
- Integrate Google Gemini AI For Chat, Text Generation, And Automation
- Deploy And Showcase Their Own AI-Powered Projects Online

## Syllabus

### ➔ WEB DEVELOPMENT FUNDAMENTALS

1. HTML Basics: Structure, elements, links, images, lists
2. CSS Styling: Colors, fonts, layout (Flexbox & Grid)

3. JavaScript Foundations: Variables, loops, conditionals, events
4. DOM Manipulation: Handling input, arrays, and objects
5. Mini Projects:
  - My First Webpage
  - Personal Portfolio Page
  - Simple Calculator
  - To-Do List (Vanilla JS)

## REACT FUNDAMENTALS

1. Introduction to React & Setup (Node.js, Vite, CRA)
2. Components & Props: Building reusable UI blocks
3. State Management: useState, event handling, conditional rendering
4. Forms & Lists: Controlled components and mapping data
5. Styling in React: CSS & Tailwind introduction
6. Mini Projects:
  - Hello React App
  - Profile Card
  - Counter & Theme Toggle
  - React To-Do App

## REACT + AI (GEMINI) INTEGRATION

1. useEffect & API Calls: Fetching and displaying data
2. AI & Gemini Basics: LLMs, Google AI Studio, API key setup
3. Gemini Integration: Using @google/generative-ai in React

4. AI Features: Prompt handling, response rendering, UI improvements

5. Projects:

- Weather Fetch App
- AI Text Generator
- Gemini Chat App



## **ADVANCED PROJECTS & DEPLOYMENT**

1. Creative AI Projects: Joke Generator, Study Helper, Content Writer

2. Final Capstone Project:

- Choose one — Chatbot, Text Generator, or Q&A Assistant

3. Deployment & Presentation: Hosting on Vercel

4. Final Deliverables:

- Portfolio Showcase
- Career & Interview Preparation



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#### Campus

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#### Registered office

📍 LSpace, VIP Road, Near JLN  
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