

# RAHUL BATRA

Haridwar, India

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## Professional Summary

- Ambitious AI/ML student and software developer with hands-on experience in **LLMs, Agentic AI, Generative AI, LangGraph, and full-stack MERN development**. Passionate about solving real-world problems and delivering innovative solutions with a growth mindset.

## Education

### COER University, Haridwar

Bachelor of Technology | Computer Science – AI & ML Specialization

2023 – Present

Roorkee, Uttarakhand, India

## Technical Skills

- **AI/ML:** Agentic AI, Generative AI, LLM, SLM, LangGraph, PyTorch, TensorFlow
- **Languages:** Python, JavaScript, C, C++
- **Libraries:** Pandas, NumPy, OpenCV
- **Frontend & Frameworks:** ReactJS, HTML5, CSS3, Bootstrap, Flask, Streamlit
- **Backend & Databases:** Node.js, Express.js, MongoDB, SQL, REST APIs
- **Tools & Platforms:** Git, GitHub, Jupyter Notebook, VS Code, Kaggle
- **Core CS:** Object-Oriented Programming (**OOP**), Design Analysis & Algorithms (**DAA**), DBMS
- **Soft Skills:** Problem solving, communication, teamwork

## Professional Experience

### AI / ML Project Developer

Self-Directed & Academic Projects

2023 – Present

Haridwar, India

- Built end-to-end AI pipelines using LLMs, Agentic AI (LangGraph), and Generative AI to solve real-world problems.
- Designed and deployed AI-driven web apps integrating Gemini API with Flask backends and responsive frontends.
- Completed Google & Kaggle's 5-Day Agentic AI Intensive; earned 50+ Google Cloud skill badges in ML and GenAI.

### Full-Stack Web Developer

Freelance / Academic Projects

2023 – Present

Haridwar, India

- Built MERN stack applications with REST APIs, React component architecture, and Bootstrap-based responsive UIs.
- Integrated live data via Rapid-API and Gemini API, implementing robust error handling and scalable backend logic.

## Projects

### AI-Powered Study Planner | Python, LangGraph, Flask, Gemini API, HTML/CSS

[GitHub] 2025

- Developed an Agentic AI system using LangGraph multi-node pipelines to generate personalized weekly study schedules, analyzing user subjects, deadlines, and priority weights via LLM multi-step reasoning.
- Deployed as a full-stack Flask web app with interactive frontend for real-time schedule generation, dynamic replanning based on user feedback, and export functionality — reducing manual planning effort significantly.

### AI-Based Diet Recommendation System | Python, Flask, Gemini API, HTML/CSS

[GitHub] 2024

- Built an AI health assistant that generates fully personalized daily diet and workout plans based on user inputs (age, weight, goals, dietary preferences) via Gemini API with structured output rendering.
- Designed a responsive Flask web interface with real-time AI inference and input validation for seamless cross-device UX.

### Weather Forecast Dashboard | HTML, CSS, JavaScript, Bootstrap, Rapid-API

[GitHub] 2023

- Built a real-time weather dashboard with live conditions, 5-day forecasts, and multi-city search powered by Rapid-API, featuring dynamic data rendering, loading states, and robust error handling via vanilla JavaScript.
- Designed a fully responsive Bootstrap UI with clean card-based layout optimized for both desktop and mobile viewing.

## Certifications

- Oracle Cloud Infrastructure 2025 – Generative AI Professional | Oracle
- GenAI Job Simulation | BCG X via Forage
- Career Essentials in Generative AI | Microsoft & LinkedIn Learning
- 5-Day AI Agents Intensive Course | Google & Kaggle

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