

AYUSH KUMAR SAIN

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PROFILE

Assistant Professor | Software Developer | AI & ML Developer/Researcher

Experienced in teaching Computer Science, Artificial Intelligence, Machine Learning, and Python, while mentoring students through project-based learning. Software Developer specialising in the MERN Stack and Next.js, with exposure to Monolithic and Microservices Architectures. Passionate AI & ML researcher focused on AI-driven accessibility, personalisation, automation, and intelligent systems.

LANGUAGES:

Python || TypeScript || jQuery || Javascript || HTML || CSS || C++ (DSA Competency)

FRONTEND FRAMEWORKS:

React.js | Next.js | Material UI | Tailwind CSS | Bootstrap | Material Tailwind | Ajax

BACKEND/DATABASE/CLOUD:

Node.js | Express.js | MongoDB | ORM (Mongoose, Sequelize) | Redis | Render | Vercel | Netlify.

TOOLS/PLATFORM:

Google Colab || PostMan || VS Code || Git || GitHub-CI/CD || IntelliJ || Apache-Jmeter || Blazemeter || Pycharm || n8n || MS Office: MS PowerPoint, MS Excel, MS Word

EDUCATION

Examination	Majors	Institute	Year	CGPA
M.tech	CSE	Gurukul Kangari University	2024-2026	9/10
B. Tech	CSE	Gurukul Kangri University	2020-2024	8.9/10
Intermediate	PCM	Divine Light School	2019-2020	9.0/10
High School	-	Divine Light School	2017-2018	8.4/10

PROFESSIONAL EXPERIENCE

Gurukul Kangari University

Aug 2026 - Now
Haridwar Uk, India

Assistant Professor

- ❖ Delivered Lectures, Guidance as an Assistant Professor at Gurukul Kangari University Haridwar, teaching Computer Science core subjects, CAO Python, AI, Machine Learning, and Advance topics to B.tech and M.tech Students.

NIELIT Haridwar

Feb 2026 - Now
Haridwar Uk, India

Asst. Faculty(CS/IT)

- ❖ Delivered training as an Assistant Faculty (CS/IT) at NIELIT Haridwar, teaching Computer Science, Python, AI, Machine Learning, and Prompt Engineering to PMKVY and O Level students. Delivered workshop on AI to Senior IAS and PCS officers in Uttrakhand govt.

Seven Procure

June 2025 – Jan 2026

Faridabad HR, India

Graduate Engineer Trainee

- ❖ Developed and enhanced the HRMS portal with task management, leave workflows, secure employee data handling, WebSocket-based real-time communication, and geo-location attendance tracking. Also optimized the company's digital presence through SEO, Google My Business (GMB), and LinkedIn & Instagram marketing, improving online visibility and user engagement.

UCOST

April 2025 – June 2025

Dehradun UK, India

IT Intern

- ❖ Engineered a full-featured Leave Management System using the MERN stack, implementing hierarchical role-based access control (RBAC) from Employee to Director General, with secure API integrations, automated workflows, and scalable architecture.

Expert Code Lab

Feb 2024 – July 2024

Dehradun UK, India

Software Developer

- ❖ Engineered various Full stack Projects as per the requirement of clients, i.e for Amazon, AIIMS, using the MERN stack, via secured CI/CD pipelines.

PROJECTS

HRMS Portal (Human Resource Management System)

Developed a MERN-based HRMS portal featuring task management, leave workflows, geo-location attendance tracking, and WebSocket-based real-time communication. Implemented JWT authentication, RBAC, performance testing, and a responsive UI using Tailwind CSS.

LEAVE MANAGEMENT PORTAL

Leave Management System (MERN Stack): Developed a scalable leave management system for UCOST with hierarchical approval workflows, RBAC, JWT authentication, and automated leave tracking. Built using React + Tailwind & Express + MongoDB.

OMIIWOODS PVT LTD. ECOMMERCE PLATFORM

E-Commerce Platform (Omiiwoods Pvt. Ltd.): Built a scalable **e-commerce web application** with **Next.js**, featuring product management and responsive UI/UX. Integrated Razorpay gateway, order tracking, Optimized SEO, performance, and deployment using **CI/CD pipelines** for enhanced visibility and reliability

CODERZ-NOTION AN ED-TECH PLATFORM

Leveraging MERN stack with different tools(**Redux, context**) for state management. Content Creation & utilisation at mentor and student level, respectively. Razorpay gateway for the payment.

Extracurricular & Achievements	Research and Conferences
Head Coordinator – Janagni Tech-Fest.	Presented Research paper in an international conference at FET- GKV on “AI-Driven Accessibility for specially abled”

Coordinator Haridwar Chapter - Under Senior PCS officer. NSS Leader- Represented GKV at Pre RDC. Featured In- CSE Quarterly Newsletter for placement achievement.	Presented poster In IIT Roorkee on “AI-Driven Accessibility for specially abled” Presented poster In IIT Roorkee on “AI-Driven Microservices Architecture Optimisation Framework” Book chapter on “AI- Driven Microservices Architecture Optimisation Framework”
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