NAKUL RANA

Full Stack Developer & AI Integration Specialist

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PROFESSIONAL SUMMARY

Dedicated Full Stack Developer with **9+ months** of hands-on experience in EdTech industry, specializing in **AI-powered educational platforms**, **LLM integration**, and **scalable web applications**. Proven track record of independently developing and deploying complex multi-role systems serving educational institutions with focus on innovation and user experience.

WORK EXPERIENCE

Software Developer
AdiClasses (EdTech Startup)

November 2024 – Present (9+ months)
Bengaluru, Karnataka

🏅 Key Achievements

> Single-handedly developed and maintained **5+ production-ready** educational platforms

> Successfully deployed and managed applications on **Ubuntu Apache servers**

> Integrated multiple **LLM APIs** for content generation and educational tools

> Collaborated with mobile app developers to design and implement **15+ REST APIs**

⚙ Core Responsibilities

> Full-stack development using **Python Flask, MySQL, JavaScript, HTML/CSS**

> Database design, optimization, and maintenance for multi-user educational platforms

> Server management and deployment on Ubuntu Apache servers with **WSGI configuration**

> Real-time notification system implementation using **Firebase Cloud Messaging**

> AI/ML integration for automated content generation and educational tools

TECHNICAL SKILLS

</> Programming Languages
● Python, JavaScript, SQL
● HTML5, CSS3

⬢ Frameworks & Technologies
● Flask, Django, Node.js
● Express.js, Bootstrap, jQuery

Databases & Tools
- MySQL, phpMyAdmin, Firebase
- Postman, Git

AI/ML & APIs
- OpenAI GPT, Claude, Gemini, DeepSeek
- LLM Integration, Prompt Engineering
- Batch Processing

Server & DevOps
- Ubuntu Server, Apache, WSGI, Server Management, Production Deployment

Development Tools
- VS Code, Cursor AI, Postman, Firebase SDK, AI-Assisted Development

Specialized Skills
- Multi-role system architecture (Student, Teacher, Principal, Admin)
- Real-time tracking systems (Bus tracking, Location services)
- PDF generation and document processing, OMR sheet scanning integration
- Authentication and authorization systems

KEY PROJECTS

School Management System   *Production Application*
Python Flask, MySQL, JavaScript, HTML/CSS, Firebase

- Developed comprehensive school management platform with **5 user roles**
- Features: Student portal, Teacher dashboard, Principal admin panel, School admin
- Implemented attendance tracking, homework management, timetable creation
- Built ID card generation system and **bus tracking functionality**
- Integrated **OMR sheet scanning** for automated test evaluation
- **Impact:** Currently serving multiple educational institutions

Advanced MCQ Generator   *AI-Powered Tool*
Python Flask, MySQL, LLM APIs, Chart.js, JavaScript, PDF Processing

- Built intelligent MCQ generation system processing multiple file formats
- Integrated multiple **LLM APIs (OpenAI, Claude, Gemini)** for content generation
- Developed drag-and-drop curation interface for educators
- Implemented advanced PDF generation handling **mathematical formulas and special characters**
- Features: Batch processing, content summarization, flashcard generation
- **Innovation:** Automated educational content creation reducing manual effort by **80%**

Marketing Management Platform *CRM System*

Python Flask, MySQL, JavaScript, Chart.js, Firebase

- Designed dual-role platform for Marketing Managers and Executives
- Built **real-time executive tracking** and performance analytics
- Implemented meeting scheduling, notification system, and quiz modules
- Created comprehensive dashboard with revenue tracking and school visit analytics
- Features: Mobile integration, calendar widgets, performance visualization

MyChat - AI Content Generator *Conversational AI Platform*

Python Flask, MySQL, Multiple LLM APIs, JavaScript

- Developed multi-model AI chat platform with customizable prompts
- Integrated **5+ LLM models** with model selection functionality
- Built template-based prompt system for various use cases
- Implemented conversation history and content management
- **User Experience:** Simplified AI interaction for non-technical users

EDUCATION

Bachelor of Technology in Computer Science *Dec 2020 – May 2024*

Institute of Technology & Management, Gwalior **CGPA: 8.31**

🎓 **Academic Excellence**

- Strong foundation in **OOPS, DBMS, Operating Systems**
- Focus on practical application of theoretical concepts

CERTIFICATIONS & LEARNING

✹ **Professional Certifications**

- **AWS Academy Cloud Foundations Graduate** *July 2023*
- **Salesforce Developer Virtual Internship** *Nov – Dec 2023*
- **Business English Certificate Preliminary** (Cambridge English) *Apr 2023*

🖥 **Specialized Training**

- **AICTE Virtual Internships:** Process Mining, Data Analytics, Cloud Computing
- **Android Developer Virtual Internship** *Jan 2023 – Mar 2024*
- **AI-ML Virtual Internship** *Apr 2023 – Jun 2024*

CORE COMPETENCIES

🚀 Technical Leadership

- Independent project architecture and development
- End-to-end application lifecycle management
- Problem-solving and debugging expertise

🧠 AI Integration Expertise

- Prompt engineering and LLM optimization
- Multi-model AI system integration
- Content generation and automation

</> Full-Stack Proficiency

- Frontend: Responsive design, UX optimization
- Backend: RESTful APIs, database optimization
- DevOps: Server deployment and maintenance

🔤 Languages

- **Hindi:** Native
- **English:** Professional Working Proficiency
- **Japanese:** Basic Conversational

ADDITIONAL INFORMATION

> **Work Philosophy:** Committed to delivering bug-free, scalable solutions with attention to detail and user experience. Passionate about leveraging AI technologies to solve real-world educational challenges.

> **Availability:** Currently employed part-time, available for full-time opportunities with flexible transition arrangements.

Building the future, one intelligent solution at a time