

RUTWIK MULEY

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LinkedIn GitHub ORCID IEEE Profile

SUMMARY

Detail-oriented AI Engineer specializing in Full-Stack Development and NLP. Proven ability to architect scalable SaaS products and serverless solutions. Published IEEE research author with deep skills in Python and Cloud Architecture.

EDUCATION

G.H. Raisoni College of Engineering and Management (GHRCEM)

B.Tech in Artificial Intelligence; CGPA: 8.96/10.0

Nagpur, India

2023 – 2027 (Expected)

Champavati Junior College

Higher Secondary Education (HSC); Percentage: 78.5%

Beed, India

2020 – 2022

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), C++, SQL, HTML/CSS

Frameworks: Tailwind CSS, Flask

Cloud & Infrastructure: Vercel (Edge Functions), Supabase, Render

AI/ML Tools: OpenRouter API, Google Gemini API, Spacy, Celery (for background jobs)

EXPERIENCE

Machine Learning Intern | [View Certificate and LoR](#)

Remote

Prodigy InfoTech

1 Nov 2025 – 31 Nov 2025

- Developed a **Hand Gesture Recognition** model using Computer Vision (OpenCV) to interpret dynamic user inputs.
- Implemented **Customer Segmentation** algorithms (K-Means Clustering) to analyze retail data for marketing insights.

PROJECTS & PUBLICATIONS

NoteDeck (AI SaaS) | *Python, Flask, OpenRouter, Celery* | [View Project](#)

- Built a full-stack AI SaaS (350+ users) that generates flashcards from PDFs/Web via Retrieval-Augmented Generation.
- Engineered a **Multi-LLM Orchestration Layer** (OpenRouter & Google Gemini), dynamically routing prompts to optimal models (Gemini, Llama) to reduce costs.
- Implemented **asynchronous background jobs** using **Celery** to handle long-running generation tasks, preventing timeouts & improving UX
- Integrated a tiered subscription model with Razorpay to process payments for premium features.

Gondi WordNet (NLP Research) | *Python, NLP, PostgreSQL* | [View Project](#)

- Authored a research paper published in **IEEE ICAIQSA 2024** on preserving the endangered Gondi language.
- Architected a linguistic database to map complex relationships (synsets) for low-resource NLP research.

Shree Datta Mandir Platform | *React, Tailwind, Vercel* | [View Project](#)

- Designed a **100% Serverless Architecture** with Edge Functions, ensuring 99.9% uptime and near-zero server costs.
- Built a proprietary **Smart Payment Routing** system bridging web browsers with native UPI apps to reduce transaction drop-offs.

Broadband Digital (ISP CRM) | *Python (Flask), PostgreSQL* | [View Project](#)

- Developed a customer portal for a local ISP that digitized the new connection process, increasing leads by 40%.
- Built a custom **Admin Dashboard** and secure payment gateway integration to manage plans and revenue.

LEADERSHIP & ACHIEVEMENTS

Vice Chair

2025 – Present

IEEE Computer Society Student Branch

GHRCEM, Nagpur

- Leading technical workshops and hackathons; mentoring juniors in Full-Stack AI development.

Cultural Achievement

Indian Classical Music (Harmonium)

Gandharva Mahavidyalaya

- Completed 2 levels of examinations; 9 years of disciplined practice.