Rutwik Muley

Artificial Intelligence Engineer

Specializing in NLP and Full-Stack Development

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LinkedIn | GitHub | ORCiD | IEEE Profile

SUMMARY

Detail-oriented **Artificial Intelligence Engineer** with a published **IEEE research paper** on NLP. Proven ability to build, ship, and deploy complete **AI-powered applications** from concept to production. Seeking to apply deep skills in **Python**, **NLP**, and **full-stack development** to solve challenging problems.

EDUCATION

G.H. Raisoni College of Engineering and Management	Nagpur, India
Bachelor of Technology in Artificial Intelligence; CGPA: 8.96/10.0	*2023 – 2027 (Expected)*
Champavati Junior College	Beed, India
Higher Secondary Education (HSC); Percentage: 78.5%	*2020 – 2022*

PROJECTS & PUBLICATIONS

Gondi WordNet | *Python (Flask), PostgreSQL, NLP, Render* | *View Project*
- **Architected** a comprehensive linguistic database (**WordNet**) for the under-resourced Gondi language to advance **computational linguistics** research.
- **Engineered** and **deployed** a **full-stack web application** providing a public-facing UI for data interaction, available at gondi-wordnet.onrender.com.
- Authored a paper on the Gondi WordNet's **architecture** and **implementation**, **published** in the proceedings of the **2024 International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Application (ICAIQSA)**.

NoteDeck | *Python (Flask), Vanilla JS, PostgreSQL, Supabase, Google AI* | *View Project*
- **Launched** a full-stack, AI-powered SaaS application that generates interactive flashcards from user notes, PDFs, and web articles, **acquiring an initial user base of 350+ active learners**.
- Implemented a scalable Python (Flask) backend to manage user authentication, data persistence, and integrate multiple AI models (Google Gemini), **automating content generation and reducing study prep time by over 90%**.
- Designed and built a responsive vanilla JavaScript frontend featuring a tiered subscription model with Razorpay, **successfully processing all user payments and subscription tiers**.

Broadband-Digital | *Python (Flask), Tailwind CSS, Jinja* | *View Project*
- Developed a comprehensive, full-stack web application for a local broadband service provider, enabling customers to browse the service online.
- Implemented key user-facing features, including new connection requests, browsing service plans, and secure online payment processing with custom payment gateway.
- Constructed the application using a **Flask** backend, with a responsive and modern frontend styled with **Tailwind CSS** and templated with **Jinja**.

Endless Cube Runner Game | *Unity3D, C#* | *view on itch.io*
- **Shipped a complete 3D endless runner game** in Unity3D/C#, managing the full development lifecycle from physics and procedural generation to UI design.
- Spearheaded the project from concept to deployment on itch.io within a **demanding one-week timeframe**, demonstrating rapid prototyping and execution.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C, C#, HTML/CSS, SQL
Frameworks & Libraries: Flask, Tailwind CSS, PyMuPDF, newspaper3k, Marked.js, KaTeX, Prism.js
Databases: PostgreSQL
Developer Tools: Git, GitHub, Linux, Unity3D, Google Colab, Vite
Cloud, Auth, & Payments: Supabase, Vercel, Render, Razorpay
Areas of Interest: Artificial Intelligence, Machine Learning, Backend Development, NLP

Achievements & Extracurriculars

Completed 2 levels of examination in Indian Classical Music (Harmonium), demonstrating nine years of disciplined practice.