# Namit Rustagi

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## Education

**B.Tech**, Vellore Institute of Technology, Bhopal, Computer Science (with AIML)                    *2022 – Ongoing*
- CGPA: 8.71

## Experience

**Full Stack Intern**, Evalvia.Ai                    *Sep 2025 – Oct 2025*
*Python, React, Tailwind, REST API, Fast API, Motor, MongoDB*
- Built a full-stack exam grading platform using React VITE and FastAPI, featuring a clean multi-tenant architecture with isolated school data, role-based access control, and integration with an existing OCR and grading backend for automated result processing.
- Designed a scalable backend with MongoDB (Motor async), optimized data models and indexing, efficient async I/O, and a secure file storage system for managing exam PDFs and related documents within tenant-specific directories.
- Developed an intuitive and responsive frontend dashboard using React and Tailwind CSS, featuring bulk PDF upload workflows, real-time progress tracking, comprehensive error handling, and a modular, reusable component architecture for scalability and maintainability.

## Technology and Tools

**Languages:** C++, Python, Java
**Machine Learning:** TensorFlow, PyTorch, Keras, Scikit-learn, NumPy
**Web Tools & Frameworks:** GitHub, VSCode, REST API, Flask, React, Azure Cognitive Services
**Databases & Cloud:** MongoDB, SQLite, AWS Basics

## Projects

**Yomi – Japanese Text Recognition & Learning Platform**                    *yomi-kata.vercel.app  |  github.com/Karma121221/Yomi*
*Python, React, Flask, MongoDB, Azure APIs, REST API, PyKakasi, MeCab*
- Architected an end-to-end OCR pipeline with Azure Computer Vision to process 10+ image formats, accurately extracting and orienting both horizontal and vertical text with 98% recognition accuracy, while also supporting raw text extraction.
- Integrated real-time kanji learning system with MongoDB collections and KanjiAPI.dev, enabling personalized JLPT-focused study decks through saved character tracking for over 2,200 core kanji.
- Automated context-aware furigana generation for both image-based and direct text inputs using a MeCab tokenizer, achieving 95% contextual accuracy on test sets.
- Deployed the full-stack React/Flask application using Vercel/Render, integrating Azure AI for high-fidelity TTS and live translation for EN.

**AgroAid – Precision Agriculture Recommendation System**                    *github.com/Karma121221/Agro-Aid*
*Python, Flask, REST API, Google Generative Ai, gTTs, Scikit-learn, Tensorflow, Keras, m2cgen*
- Directed development of four ML models, including a stacked ensemble for crop suggestions and Random Forests for yield prediction, health scoring, and soil analysis, each surpassing 95% validation accuracy.
- Integrated OpenWeather API and Google AI to create a dashboard and bilingual chatbot (EN/HI), handling 3 query types (weather, crop, soil).
- Engineered a voice-enabled assistant (gTTS) and "Ask Us" forum with localStorage persistence.
- Constructed a RESTful backend in Node.js/Express, employed Multer for secure data uploads, and optimized CORS policies, ensuring 99.9% uptime for production deployments.

**Taskify It! – AI-Powered Study Planner**                    *taskify-it.vercel.app  |  github.com/Karma121221/Taskify-It*
*React, Node.js, Express.js, MongoDB, Puppeteer, Multer*
- Built a responsive React app with PDF upload, dark mode, and persistent state, backed by a REST API using Multer for secure uploads, pdf-parse for text extraction, and Gemini AI to auto-generate 5–10 tasks per module, improving usability by 25%.
- Designed and deployed three auto-scheduling algorithms to assign deadlines across 100+ tasks, boosting on-time completion rates by 45%.
- Leveraged Puppeteer for server-side PDF export of custom study plans and enforced robust CORS and security policies; orchestrated end-to-end deployment on Vercel and Render with 99% uptime.

## Achievements

- Secured a **Top 3 Teams - Certificate of Appreciation** in the Hackathon: *AI Frenzy: Dream It, Generate It!*, for **Best Use of AI**.
- Secured Finalist position at Hackathon: IdeaHub 2.0 Tech Challenge among 600+ participants, and ranking in the **Top 2%**.
- Clinched Gold Medal in Men's Team Chess at AdVITya 2023 and secured a Top 10 individual finish in Chess at VIT Aarambh 2023.
- Selected for the highly competitive global Amazon ML Summer School 2025, as one of only 3,000 students chosen from India.

## Certifications

- *GEN AI Using IBM Watsonx* — IBM                    |    *Applied Machine Learning in Python* — Coursera
- *Japanese Language Proficiency Test N5* — Japan Foundation    |    *The Machine Learning Process A-Z* — 365 Data Science