Namit Rustagi

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Education

Vellore Institute of Technology, Bhopal **October 2022 - April 2026**
Bachelor of Technology in Computer Science and Engineering (Specialization in AI - ML) *Bhopal, Madhya Pradesh, India*
CGPA: 8.71/10

Experience

Evalvia.Ai **Sep 2025 – Oct 2025**
Full Stack Intern *Remote*

- Architected and built a full-stack, multi-tenant AI grading platform using React and FastAPI, implementing role-based access control and integrating a core AI/OCR pipeline for automated evaluation.
- Engineered the scalable backend using FastAPI, MongoDB (Motor async), and using AWS S3 for fire storage, implementing critical product features including a credit/referral system to drive user growth and intelligent filename parsing to automate exam data entry.
- Designed and developed a responsive, multi-role dashboard in React, creating distinct, secure portals for Admins (user management), Teachers (grading), and Students (results).

Technology and Tools

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

Projects

Yomi – Japanese Text Recognition & Learning Platform
Python, React, Flask, MongoDB, Azure API, PyKakasi, MeCab *yomi-kata.vercel.app*

- Engineered an OCR pipeline via Azure Vision, achieving 98% text recognition accuracy across 10+ image formats with automatic orientation correction.
- 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 furigana generation using MeCab, attaining 95% contextual accuracy for image and text inputs.
- Deployed full-stack Flask–React app with Azure AI TTS and translation, ensuring seamless cross-language usability.

AgroAid – Precision Agriculture Recommendation System
Python, Flask, Scikit-learn, TensorFlow, Google Gen AI, gTTS *github.com/Karma121221/Agro-Aid*

- Built four ML models (crop, soil, yield, health), achieving 95%+ accuracy through ensemble and Random Forest architectures.
- Integrated OpenWeather API and Google AI to create a dashboard and bilingual chatbot (EN/HI), handling 3 query types (weather, crop, soil).
- Implemented a voice assistant (gTTS) and "Ask Us" forum for real-time guidance with 99.9% uptime.
- Developed a modular Python-Flask backend, serving 4 ML models and weather data as JSON-based, scalable RESTful APIs.

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 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*