Namit Rustagi

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Education

B.Tech, Vellore Institute of Technology, Bhopal, Computer Science (with AIML)   *2022 – Ongoing*
- CGPA: 8.48

Projects

AgroAid   *github.com/Karma121221/Agro-Aid*
- Led the team to design and deploy 4 machine learning models—stacked ensemble for crop recommendation and Random Forest for yield prediction, crop health assessment, and soil fertility analysis—each achieving over **95% accuracy** and informing decisions for **1M+ simulated crop profiles**.
- Developed a multilingual web platform with **real-time weather data** and a voice-enabled chatbot (with Hindi support), cutting farmer query turnaround time by **60%**.
- Established a discussion forum for **500+ active users**, facilitating peer-to-peer knowledge exchange and multilingual support for agricultural queries.

Taskitize It! — AI-Powered Study Planner Web App   *github.com/Karma121221/Taskitize-It*
- Built a full-stack React.js + Express.js application that transforms academic syllabi (PDF format) into structured study plans with **automatically generated topics, tasks, deadlines, and curated learning resources**.
- Designed an interactive UI with **real-time progress tracking**, individual task completion states, and deadline management using `localStorage` for persistent data across sessions.
- Implemented print-ready export functionality with **Puppeteer headless browser** for generating formatted PDF reports, supporting cross-platform compatibility and offline access.

SignScribe   *github.com/Karma121221/SignScribe*
- Engineered a machine learning–based application using a custom ASL dataset of **5,000+ images**, achieving over **90% recognition accuracy** via advanced image processing and landmark detection.
- Engineered real-time sign recognition using OpenCV and Flask, enabling instantaneous translation; enhanced accessibility for 500+ ASL users and facilitated seamless communication across diverse communities.

Achievements

- Secured a **Top 3 Teams Certificate of Appreciation** in the Hackathon: *AI Frenzy: Dream It, Generate It!,* for demonstrating the **Best Use of AI**, competing among 250+ participants.
- Achieved **Finalist Position** in the Hackathon: *IdeaHub 2.0: The Ultimate Tech Challenge*, competing against 600+ participants, showcasing innovative problem-solving skills.
- Won a **Gold Medal** in the *Men's Team Chess* event at *AdVITya 2023*, competing against 400+ students.
- **NPTEL Elite + Silver Certificate** in *Privacy and Security in Online Social Media*.

Certifications

- *GEN AI Using IBM Watsonx* — IBM | *Applied Machine Learning in Python* — Coursera
- *Geodata Processing using Python* — ISRO | *The Machine Learning Process A-Z* — 365 Data Science

Extracurricular Activities

- Participated in notable hackathons and competitions such as Flipkart Grid 6.0, Amazon Smbhav Hackathon 2024, Tata Elxsi Teleport Season 2, and TCS CodeVita 2024, gaining valuable experience in teamwork. Selected for GirlScript Summer of Code 2024, contributing to open-source projects.
- Placed in the Top 10 in Chess at Aarambh 2023, a prestigious sports fest with participation from multiple colleges, demonstrating strategic thinking and competitive spirit.

Technology and Tools

Languages: C++, Python, Java, HTML, CSS, JavaScript, SQL
Programming Libraries: C++ STL, OpenCV, TensorFlow, Pandas
Web Tools & Frameworks: GitHub, Git, VSCode, Flask, ReactJS
Databases & Cloud: MongoDB, SQLite
Coursework: Data Structures and Algorithms, Operating Systems, Database Management Systems