Aayush Pradip Rokade

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Profile:

A MSc Information Systems student at University College Dublin and Computer Engineering graduate (STEM) with proficiency in building full-stack SaaS applications and AI powered solutions using Python and cloud technologies. Possess leadership experience as a technical head in a startup for successfully collaborating and managing teams and delivering digital solutions. Recognized for strong analytical thinking, adaptability and structured problem-solving with an interest in leveraging data and AI to enhance customer experience. A disciplined and committed national karate champion who is passionate about applying technology to deliver real-world solutions in an agile and collaborative setting.

Skills:

Programming Languages: Python, C, C++ SQL, R, JavaScript.
Development Tools: AWS, Google Cloud, MongoDB, NodeJS, Git, Flask, Power BI, Scikit-learn, NumPy, Pandas, Matplotlib.
Core Concepts: Data Structures & Algorithms, Object-Oriented Programming, Agile Methodologies.
Related Certifications: Google AIML Certification, AWS Cloud Computing Certification, AWS Data Analytics Certification.

Education:

Masters of Science in Information Systems
University College Dublin, Dublin, Ireland.   **[Sept 2025 – Present]**
- **Modules:** Quantitative Data Analysis, App Data and Wrangling, Language Models and Methods, ML Foundations.

Bachelor of Engineering in Computer Engineering
University of Mumbai, Mumbai, India.   **[Jan 2021 – May 2025]**
- Accomplished a 2H1 - Second Class Honours – Grade 1 (3.49/4.2 Irish GPA) at Bachelors in Computer Engineering.
- **Modules:** Artificial Intelligence, Machine Learning, Big Data, Database Management, Python Intermediate.
- **Publications:** '*Implementing AI-Based Mock Interview System using NLP*' presented at ARSSS Conference, 2025.

Experience:

Sap and Soul (Startup Company), Maharashtra, India   **[Feb 2025 – Aug 2025]**
Technical and design head
- Took ownership of design and development of the company's first official website, establishing a positive online presence.
- Engineered and deployed a full-stack e-commerce platform which supported a 40-50% growth in the user engagement.

Calanjiyam Consultancies and Technologies Ltd., Tamil Nadu, India   **[Aug 2023 – Nov 2023]**
Web development intern
- Developed and maintained web application using HTML5, CSS3, JavaScript and PHP as well as hosting [Hostinger].
- Collaborated with the development team to resolve code issues to reduce risk, resulting in a 30% reduction in user-reported bugs.

Academic Projects:

Medical report analyser using RAG and fracture detection using YOLOv8
- **Tools Used**: Google Colab, Streamlit, Hugging Face, Google Gemini, FAISS, GPT-oss, Grok API.
- Developed a RAG model using PubMed BERT for analysing medical reports and fracture detection using YOLOv8 using Streamlit as an interface.

Crop Recommendation and Disease detection
- **Tools Used**: Flask, Google Colab, Matplotlib, Python, Torch, TensorFlow.
- Created a productive ML web application for recommending crops and disease detection for crops having an accuracy of 85% using image processing.

Campus event organizer
- **Tools Used**: MERN Stack, EmailJS, MongoDB, Atlas.
- Designed a full-stack SaaS application using a MERN stack, implementing a decoupled architecture where a Node.js backend handled all data processing and logic for a ReactJS front-end.