

AAYUSH DHARPURE Cloud & AI Enthusiast

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🌐 LinkedIn 🏠 GitHub 🔄 Leetcode



👤 PROFILE

Final-year B.Tech student specializing in Artificial Intelligence and Machine Learning, with strong foundations in Cloud Computing, Machine Learning, and core Computer Science subjects. Experienced in Data Structures, NLP, and AI-driven project development, with hands-on expertise in AWS and Cloud Computing. Certified as an AWS Cloud Practitioner, with a passion for building smart, scalable tech solutions that solve real-world challenges and deliver meaningful impact.

🧠 SKILLS

Coursework — Data Structures and Algorithms, Operating System, Database Management Systems, Object-Oriented Programming, Computer Networks

Cloud & AIML — Amazon Certified Cloud Practitioner (CLF-C02), Cloud Computing, Machine Learning, Natural Language Processing

Programming — DSA, Java, SQL, Python, HTML, CSS, JavaScript

Soft Skills — Leadership, Team Collaboration, Problem-Solving, Communication

📁 PROJECTS

Blood Group Detection Using Fingerprint, [GitHub](#) 📄 Jul 2024 – Nov 2024

- Developed a **CNN**-based image classification model using **ResNet50** and **OpenCV** to detect 8 blood groups from fingerprint scans, applying image preprocessing and data augmentation techniques on a dataset of 6,000+ images.
- Achieved ~86% validation accuracy through hyperparameter tuning and deployed the model using **Flask** for real-time blood group prediction via a web interface.

AI Chatbot using Groq API & Streamlit, [GitHub](#) 📄 Dec 2024 – Jan 2025

- Developed an interactive chatbot using **Groq API**, **LangChain**, and **Streamlit**, enabling conversational memory and dynamic **AI** personas (Default, Expert, Creative).
- Implemented **model switching** (e.g., mixtral-8x7b-32768, llama3-8b-8192), **chat history** persistence, and real-time response optimization for a seamless user experience.

📅 EXPERIENCE

Cloud Virtual Intern, *AWS Academy & EduSkills* 📄 Sep 2023 – Nov 2023

- Completed a 10-week virtual internship covering AWS cloud concepts like virtualization, networking, storage, and security, with hands-on practice using core services such as **EC2**, **S3**, **IAM**, and **CloudWatch**.
- Built a strong foundation in cloud infrastructure that supported the successful completion of the **AWS Certified Cloud Practitioner (CLF-C02)** exam.

Machine Learning Coordinator (Trainee), *Progressia* 📄 Dec 2023 – Feb 2024

- Coordinated ML & IoT workshops for 300+ students in collaboration with RCOEM-TATA-CIIT, and received a formal **Letter of Appreciation** for fostering engagement, inclusivity, and smooth execution.

🎓 EDUCATION

B. Tech, CSE (AIML), *Shri Ramdeobaba College of Engineering and Management* 2022 – present | Nagpur
CGPA: 8.87

HSC Board, *Decent Junior College* 2020 – 2022 | Nagpur
HSC: 83.17%
MHTCET: 97.6 percentile

🏆 CERTIFICATIONS & ACHIEVEMENTS

AWS Certified Cloud Practitioner - Amazon Web Services (838/1000) 📄 — Credly Badge 📄

Introduction to Machine Learning – NPTEL, IIT Kharagpur 📄 — 8-week course (Jul-Sep 2024)

Co-Inventor – Published Utility Patent — *A Biometric Blood Group Identification System*, Indian Patent Application No. **202521037647 A**, published in Indian Patent Journal No. 20/2025 on **May 16, 2025**

☆ **EXTRA-CURRICULAR**

Publicity Lead, Altronix, AIML student Committee, RBU, Nagpur

Oct 2024 – Mar 2025