Purva Rana

+91 7893747153 | purvarana1617@gmail.com | linkedin.com/in/purva-rana | github.com/purva-rana

Professional Summary

AI systems builder with a designer's eye, I make intelligence usable through clean design and applied engineering. Experienced in full-stack development, NLP, and AR/vision projects, with a track record of hackathons, freelancing, and academic research. Driven by curiosity to explore how creative design and AI systems intersect to solve real problems.

Education

MIT - World Peace University, Pune, Maharashtra   **CGPA: 8.76**

Bachelor of Technology, Computer Science & Engineering (Final Year)   *May 2026*

Interdisciplinary curriculum blending Computer Science with Peace Studies, Global Cultures, and Ethics.

Skills

- **AI & Applied ML:** NLP, Sentiment Analysis, Prompt Engineering, PEFT, Model Training (PyTorch, TensorFlow)
- **Development:** Python, Java, C/C++, MERN, SQL, Git, Linux, CI/CD
- **Design & Creative**: UI/UX, Figma, AR / VR Prototyping, Blender
- **Collaboration & Mindset**: Critical Thinking, Rapid Prototyping, Attention to Detail, Adaptability, Multilingual (English, Hindi, Marathi, Gujarati; learning French & Japanese)

Projects

- **histARy (Capstone | AI + AR | In Progress):** Interactive AR experience reconstructing historical sites using scraped images, **GenAI upscaling**, and **3D reconstruction**.. Demonstrates applied AI + AR integration.
- **PHAMS (Patient Hospital Appointment Management System):** Full-stack JavaFX + Spring Boot + SQL system to manage appointments, employees, and rooms across hospitals. Designed **UI/UX frontend** and implemented **secure role-based backend** with data integrity constraints.
- **Pantry Pal:** CRUD-based inventory manager evolved into an AI-driven assistant for smart recipe generation and list optimization.
- **RythmiQ:** Personalized playlist generator using **Spotify Developer API + Python**, with custom recommendation algorithms.
- **Terms & Conditions Analyzer:** NLP-based analyzer to detect and flag unfavorable contract clauses by leveraging techniques such as **Sentiment Analysis,** resulting in improved contract clarity.

Experience

Tech Advisor, IRIS Club

- Led design and technical development for the club's digital presence, enhancing UI/UX and interactivity.
- Mentored peers on **web development and product prototyping**, and co-organized technical workshops and hackathons.

Freelance Web Developer

- Delivered professional websites for individuals and small businesses, handling **end-to-end design, development & deployment**.
- Implemented **responsive design** and optimized site performance, improving client usability and engagement.

Achievements & Extracurriculars

- **Hackathons & Competitions:** Winner - HackMIT Ideathon 2025; Top 5 - DataQuest Track at HackMIT Hackathon; Participant in Smart India Hackathon (SIH), ICPC.
- **Academic Excellence**: Secured the **highest score in Computer Science (191/200)** in AY 2021–22.
- **Workshops**: Attended **IET Workshop on Research Methodologies**; Patent Drafting workshop by **Prof. Phani Kumar Pullela** and **Advocate Pranav Bhat**; **AI Mastermind** program by Outskill.
- **International Olympiad Medalist:** Multiple medals in Informatics, Cyber, Mathematics, Science, French, and English.

Relevant Coursework

- Data Structures & Algorithms | Artificial Intelligence | Machine Learning | NLP | Embedded Systems & IoT
- Computer Networks | Operating Systems | Cybersecurity | Cloud Computing | Software Engineering and Development Principles

Certifications

- Full Stack Web Development – DevTown
- Data Structures & Algorithms Bootcamp – Google Developer Student Clubs (GDSC), Microsoft Learn