

RAMAN AGRAWAL

Computer Science (AI & ML) Student

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EDUCATION

• University of Petroleum & Energy Studies (UPES) B.Tech in Computer Science (AI/ML Specialization)	2022 – 2026 CGPA: 8.6/10
• Sacred Heart Convent Hr. Sec. School ISC (Class XII)	2019 – 2021 87%
• Sacred Heart Convent Hr. Sec. School ICSE (Class X)	2019 80%

TECHNICAL SKILLS

- **Machine Learning:** Supervised & Unsupervised Learning, Deep Learning, NLP, Computer Vision, Model Deployment
- **Programming:** Python, Java (advanced), C, MySQL
- **Tools:** Jupyter, VS Code, git and git hub

PROFESSIONAL EXPERIENCE

• Groove Innovation ⚡ Full Stack Developer Intern	Jun 2025 – Jul 2025
– Designed and deployed automated deep learning workflows using LangChain, reducing model deployment time by 30% and establishing scalable, maintainable architecture with clear documentation.	
– Partnered with cross-functional teams to integrate ML models into production pipelines, improving deployment efficiency by 25% and enabling faster collaboration across 5+ developers.	

TECHNICAL PROJECTS

• Intelligent Document & Web QA System ⚡ Python, Flask, MySQL, FAISS, SentenceTransformers, NLTK, BeautifulSoup, SQLMap (Testing)	Aug 2025 – Present
– Developed an intelligent Q&A system integrating FAISS semantic search with SentenceTransformers for secure, context-aware information retrieval from documents and web sources.	
– Implemented authentication and access control with password hashing, token-based verification, and strict input sanitization to prevent injection or unauthorized access.	
– Conducted vulnerability assessment and SQL injection testing using SQLMap , ensuring resilient database interactions and secure backend communication.	
• Brain Tumor Detection System ⚡ Python, TensorFlow, Flask, OpenCV	Jan 2025 – Apr 2025
– Engineered and deployed a CNN model based on VGG19 architecture via Flask, achieving 95% accuracy in MRI-based tumor classification through an intuitive web interface for healthcare professionals.	
– Strengthened model robustness using data augmentation and streamlined preprocessing pipeline, cutting processing time by 40%.	
• Intelligent Word Recommendation ⚡ Java, Spring Boot, NLP, Trie	Sep 2024 – Dec 2024
– Built a high-performance real-time autocomplete system leveraging Trie data structure, delivering sub-200ms response time with context-aware bigram/trigram models and Laplace smoothing.	
– Processed and analyzed large-scale text corpora (1M+ words) to significantly improve recommendation accuracy and contextual relevance.	

CERTIFICATIONS

- **Generative AI Professional:** Oracle Certified Professional (2025)
- **Introduction to Cybersecurity** - Cisco Networking Academy (2025)
- **Essentials in Generative AI** - Microsoft & LinkedIn (2024)
- **SF Helping Hands NGO:** Directed education programs for 50+ underprivileged students, organized blood donation drives benefiting 50+ recipients, and streamlined volunteer coordination (2023)