

# RAMAN AGRAWAL

🎓 Computer Science (AI & ML) Student

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## EDUCATION

- University of Petroleum & Energy Studies (UPES)** 2022 – 2026  
B.Tech in Computer Science (AI/ML Specialization) CGPA: 8.6/10
- Sacred Heart Convent Hr. Sec. School** 2019 – 2021  
ISC (Class XII) 87%
- Sacred Heart Convent Hr. Sec. School** 2019  
ICSE (Class X) 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** 🌐 Jun 2025 – Jul 2025  
Full Stack Developer Intern
  - 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** 🌐 Aug 2025 – Present  
Python, Flask, MySQL, FAISS, SentenceTransformers, NLTK, BeautifulSoup, SQLMap (Testing)
  - 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** 🌐 Jan 2025 – Apr 2025  
Python, TensorFlow, Flask, OpenCV
  - 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** 🌐 Sep 2024 – Dec 2024  
Java, Spring Boot, NLP, Trie
  - 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)