Rumman Rafique Shaikh

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Education

MIT Academy of Engineering — Pune, Maharashtra
Bachelor of Technology, Electronics and Communication Engineering (CGPA: 8.03) — *Aug 2021 – Jun 2025*

R.P Junior College — Mumbai, Maharashtra
H.S.C, Science (Percentage: 85.5) — *Aug 2019 – Mar 2021*

Experience

Project Intern — 23 Jan 2025 – Present
ProsperaSoft — *Pune, Maharashtra (In-Office)*

- Contributed to "The Professor", an AI assistant using LLaMA 2-70B, RAG, and LoRA for personalized, privacy-first experiences with long-term memory.
- Developed a PDF version change detector using Flask and PyMuPDF to highlight added/removed content and generate structured summaries.
- Built a React Native app to discover nearby professionals and places (e.g., software developers, restaurants) using Google Maps and Firebase for auth, database, and geolocation.

SDE-Frontend Intern — 10 Jun 2024 – 5 Aug 2024
Ark Physio — *Leeds, UK (Remote)*

- Developed user-friendly websites on the Wix platform, increasing visitor traffic by 20%.
- Collaborated with stakeholders to integrate custom features, reducing bounce rate by 15%.

Projects

Cloud TCO Calculator | *Python, Django, React-Vue, Machine Learning, Amazon AWS | Mar '24 – Apr '24*

- Evaluated the overall expenses associated with adopting and operating cloud-based services.
- Hosted frontend on AWS S3 and backend on AWS EC2, with machine learning models deployed via AWS SageMaker and accessed using Lambda functions.
- **Project Link**: TCO Calculator

Hospital Prescription System | *Spring Boot, Java, JavaScript, MySQL, Microservices | Aug '23 – Sep '23*

- Managed patient appointments and provided follow-up consultations with doctors.
- Implemented a secure login system for users to book appointments and review medical history.
- Delivered AI-generated prescriptions via a chatbot using the ChatGPT API.
- Developed an API gateway for efficient microservice communication using Spring Boot.

Deepfake Detection Using Intrinsic Signatures | *Python, OpenCV, Machine Learning | Oct '23 – May '24*

- Proposed a lightweight deepfake detection method using frequency-domain features like Wavelet Transform and Azimuthal Averaging for real vs synthetic image classification.
- Achieved up to 94% accuracy using traditional ML models including Random Forest, ANN, KNN, SVM, and Logistic Regression.
- Eliminated the need for large deep learning models by focusing on interpretable intrinsic features from fake images.

Technical Skills

Languages: Java, Python, C, SQL, JavaScript, HTML/CSS, Verilog, Embedded C
Frameworks: React, React Native, Spring MVC, Spring Boot, Wix, Material-UI, Babel, Fast API, Flask
Developer Tools: Git, Docker, GCP, VS Code, IntelliJ, Eclipse, AWS, Firebase
Libraries: pandas, NumPy, Matplotlib, OpenCV, TensorFlow, Langchain, Huggingface
Strongest Areas: DSA, Backend, AI/ML, Deep Learning, Generative AI
Strengths: Taking Initiative, Disciplined, Self-motivated

Achievements, Co-curricular & Leadership

- **Grand Finalist at Veritas-Uconnect Hackathon:** Ranked among the top 10 teams out of 850+ participants across India in a national-level hackathon.
- **Class Representative and Placement Coordinator:** Acted as a bridge between students and faculty, organized academic events, and coordinated with companies to facilitate placement drives.
- **CodeChef Division 3 Starter 148 Contest:** Achieved a rank of 214 out of 10,000+ participants, demonstrating strong problem-solving and competitive programming skills.