

FARDEEN S KHADRI

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PROFESSIONAL SUMMARY

Results-driven AI Developer Intern at MantraCare with expertise in advanced conversational AI, LLM integration, and health-tech systems. Proficient in Python, CI/CD, and Cloud technologies. Proven ability to architect complex AI solutions and optimize full-stack deployments.

PROFESSIONAL EXPERIENCE

AI Developer Intern - MantraCare 2025 - Present
Delhi/Remote

- Integrated OpenAI's Realtime API and Gemini 2.0 models for advanced conversational health AI.
- Developed vector-based movement detection for physical therapy using 3D coordinate processing.
- Architected and deployed MCP (Model Context Protocol) servers using Docker and FastAPI.
- Optimized PostgreSQL databases and orchestrated high-frequency health tracker data migrations.

Software Developer - Indian Institute of Science (IISc) 2024 - 2025
Bangalore

- Built VR-based research applications and custom Brachygraph systems for real-time data visualization.
- Developed Python-based configuration workflows and interactive research interfaces.

DevOps Engineering - Rومان Technologies 2024 - 2025
Bangalore

- Gained hands-on experience with CI/CD pipelines using Docker, Jenkins, and GitHub Actions.
- Automated deployment workflows for Python microservices and managed configuration consistency.

FEATURED PROJECTS

Real-time AI Health Assistant
- Architected a high-performance conversational AI utilizing OpenAI's Realtime API and Gemini 2.0.
- Integrated medical trackers and MCP servers for live health insights.

PySummarizer
- NLP library for PDF summarization using extractive/abstractive methods, integrated with Flask.

VISNAV - Visor Integrated System for Navigation
- Smart helmet visor using YOLOv10 for real-time hazard detection. Published in IJIRT Vol 11.

TECHNICAL SKILLS

Languages:	Python, C, C++, Rust, SQL, HTML/CSS, JavaScript
GenAI & ML:	Transformers, RAG, PyTorch, TensorFlow, HuggingFace, NLP
Cloud & DevOps:	Docker, Kubernetes, Jenkins, GitHub Actions, AWS, Azure, FastAPI
Embedded & IoT:	ESP32, Arduino, YOLO, mmWave Radar, 3D coordinate processing

ACHIEVEMENTS & CERTIFICATIONS

- First Place: CodeRed 2025, Confluence 2025, Geenovate 2025 (National Hackathons)
- Best Idea Award: Hackverse 2025
- Certified: DevOps and Cloud Fundamentals (Rومان), AI for India (Gov. of India)