Rajveer Singh Saggu

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SUMMARY

AI & Systems Engineer with expertise spanning **generative AI, diffusion models, LLMs, and RAG pipelines**. Skilled in designing **high-performance ML systems**, **containerized pipelines**, and scalable cloud deployments. Passionate about **AI research, anime creative modeling**, and production-grade experimentation across multiple domains.

EDUCATION

Birla Institute of Technology, Mesra   2023 – 2027
B.Tech in Electronics and Communication Engineering   CGPA: 8.85/10

EXPERIENCE

Software Engineering Intern – Data & AI Systems   May 2025 – Jul 2025
OutriX   *Remote*
- Developed containerized **REST APIs** serving 1M+ records, reducing manual reporting by 20%.
- Automated **hybrid AI pipelines** including RAG/LLM workflows for scalable research tasks.
- Performed **latency profiling, fault-tolerant testing**, and optimized concurrent SQL workflows.

Software Engineering Intern – Cybersecurity AI   Apr 2025 – May 2025
CDAC   *Remote*
- Engineered AI-powered **anomaly detection pipelines** for 10M+ events/day.
- Integrated **LLM RAG-based modules** into enterprise SIEM systems.
- Containerized microservices using Docker for reproducible and scalable deployments.

Algorithmic Trading Strategy Intern   Feb 2025 – Mar 2025
Lunor AI   *Remote*
- Designed deterministic multi-coin trading algorithms in Python/C++ with SQL data streams.
- Backtested strategies evaluating **Sharpe, drawdown, and stability metrics**.
- Implemented data-driven optimizations for high consistency and reliability.

PROJECTS

AgentHive – Multi-Agent AI Platform — Python, LangChain, FAISS, Docker, AWS   GitHub
- Distributed **multi-agent RAG system** for automated research and knowledge retrieval.
- Optimized **vector search, agent orchestration**, and async pipelines, reducing latency by 25%.

Mini-Document Validator — Python, FastAPI, Generative AI, PostgreSQL, Docker   GitHub
- AI microservice combining **LLM parsing with rule-based validation**.
- Deployed **containerized services** with persistent storage for production reliability.

Ilaaj – AI Medical Assistant — LangChain, FAISS, Flask, AWS   GitHub
- Implemented a **RAG system** for contextual Q&A and triage support.
- Used **LLM reasoning modules** for adaptive responses, reducing manual workload by 80%.

TECHNICAL SKILLS

Languages: Python, C++, C#, NodeJS, SQL, OOP, DSA, Linux CLI
AI/ML: PyTorch, TensorFlow, Diffusion Models, Transformers, RAG, LoRA, FAISS, CUDA, OpenAI APIs
Backend & Data: FastAPI, Flask, REST APIs, PostgreSQL, MongoDB, Redis
DevOps & Cloud: Docker, Git, AWS, Kubernetes, CI/CD, Linux containers
Hardware/EDA: Verilog, Vivado, FSM design, timing simulation

ACHIEVEMENTS

- **Amazon ML Summer School '25 Scholar** – Top 0.2%.
- **1st Place – Unstop Hackathon**, 2nd overall among 1000+ teams.
- **CDAC Merit Scholar** for excellence in AI and advanced computing.
- Contributor to **GSSOC '25** open-source AI projects.