

Mukktinaadh Raghavarapu

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EDUCATION

Parul University

B.Tech Computer Science Engineering (Big Data Analytics)

Vadodara, Gujarat

Expected May 2026

PROFESSIONAL EXPERIENCE

AI/ML Intern

MyOnsiteHealthcare

Feb 2026 – Present

OnSite

- Architecting **end-to-end machine learning pipelines** for healthcare **predictive analytics** and patient outcome forecasting
- Developing **Transformer-based NLP models** for clinical document classification achieving **92% accuracy**
- Implementing **MLOps workflows** including model versioning, automated retraining pipelines, and **data drift monitoring**

Volunteer Software Developer

Google Developer Group (GDG)

Oct 2024 – Sep 2025

Remote

- Led backend development for **Java/Python systems** used across multiple collaborative university projects
- Optimized **ML preprocessing pipelines** improving model training accuracy by **10–15%**
- Mentored **15+ developers** through code reviews, backend architecture discussions, and system design sessions

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, C, Go

Backend / APIs: FastAPI, Flask, Django, Spring Boot, REST APIs, GraphQL, gRPC, WebSockets

Distributed Systems: Microservices, Service Mesh, Load Balancing, Sharding, Consensus Algorithms

Databases: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Vector Databases (FAISS, Chroma)

Cloud / DevOps: AWS, Docker, Kubernetes, GitHub Actions, CI/CD, Terraform

System Design: High Availability, Fault Tolerance, Caching Strategies, Rate Limiting, Event-Driven Architecture

FEATURED PROJECTS

FinAI_Advisor_Enterprise | Python, FastAPI, Redis, PostgreSQL, Kafka, AWS [GitHub]

Nov 2025

- Architected an **enterprise microservices platform** supporting **1000+ concurrent users**
- Engineered **low-latency WebSocket streaming infrastructure** delivering real-time financial data in **<100ms**
- Designed **high-availability PostgreSQL architecture** with read replicas and Redis caching reducing database load by **60%**
- Implemented **secure authentication layer** using JWT/OAuth2 with **API gateway rate limiting**

Veriblock-FL | Python, PyTorch, gRPC, Blockchain, Distributed ML [GitHub]

Apr 2025

- Built a **globally distributed federated learning system** supporting decentralized model training
- Developed **high-performance gRPC communication services** reducing network overhead by **10%**
- Implemented **fault-tolerant distributed architecture** using circuit breakers, retries, and dead-letter queues
- Designed **zk-SNARK cryptographic verification** enabling tamper-resistant model aggregation

CodePal-AI | Python, FastAPI, Redis, AsyncIO, Kubernetes [GitHub]

Jul 2025

- Developed an **AI developer assistant platform** with intelligent request batching and **multi-layer caching**
- Reduced API latency by **40%** through **async processing pipelines** and Redis performance optimization
- Implemented **token bucket rate limiting** supporting **1000+ requests/min**
- Built extensible **plugin architecture** using the **Language Server Protocol (LSP)**

ACHIEVEMENTS & PUBLICATIONS

3.7M+ lines of code across **50+ repositories** solving real-world software engineering and production system problems

Published research: **NeuroChainOps – Privacy-Preserving Blockchain MLOps for Federated Neural Architecture Search**

Built and deployed **6+ production distributed systems** with monitoring, logging, and automated CI/CD pipelines