

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

Feb 2026 – Present

MyOnsiteHealthcare

Onsite

- Developing **production ML pipelines** for healthcare predictive analytics, patient readmission forecasting, and clinical decision support
- Implementing **transformer-based NLP models** (BERT, BioClinicalBERT) for medical document classification and entity extraction
- Building **MLOps infrastructure** including automated model retraining, A/B testing pipelines, and real-time performance monitoring

Volunteer AI Engineer

Oct 2024 – Sep 2025

Google Developer Group (GDG)

Remote

- Architecting **Java/Python ML tooling** adopted by **200+ students** across multiple university projects and hackathons
- Optimizing **deep learning preprocessing pipelines**, improving training accuracy by **10–15%**
- Mentoring **15+ contributors** on experiment tracking, model versioning, and ML system deployment practices

TECHNICAL SKILLS

AI / ML: PyTorch, TensorFlow, Transformers (BERT, GPT), HuggingFace, LangChain, RAG, Vector Databases

Deep Learning: CNNs, LSTMs, GRUs, Attention Mechanisms, GANs, Neural Architecture Search, Federated Learning

MLOps: Docker, Kubernetes, MLflow, Weights & Biases, CI/CD for ML, Model Monitoring, A/B Testing

Languages: Python, Java, JavaScript, SQL, C

Backend: FastAPI, Flask, REST APIs, Microservices, Redis, Kafka, RabbitMQ

Cloud: AWS (EC2, S3, Lambda), Model Deployment

FEATURED PROJECTS

Veriblock-FL | Python, PyTorch, Federated Learning, Blockchain

Apr 2025

- Built **privacy-preserving federated learning framework** enabling decentralized model training across distributed clients
- Implemented **zk-SNARK cryptographic verification** to ensure integrity of model updates
- Designed **multi-client coordination architecture** with Byzantine fault tolerance

NASLib Experiments | PyTorch, Neural Architecture Search, Distributed Training

Apr 2025

- Conducted experiments on **Neural Architecture Search (NAS)** frameworks using reinforcement learning and evolutionary strategies
- Benchmarked optimizers (SGD, Momentum, Adam) across CNN search spaces analyzing compute efficiency and convergence behavior
- Built experiment tracking pipelines ensuring reproducibility of NAS training experiments

Deep-LOB-Agentv2 | PyTorch, LSTM, Attention Models, Time Series

Oct 2025

- Developed **deep learning architecture** for financial time-series prediction using limit order book data
- Implemented **LSTM + Attention hybrid model** for mid-price movement prediction
- Optimized inference pipelines enabling **real-time prediction on high-frequency market data**

ACHIEVEMENTS

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

Built and deployed **6+ end-to-end ML and distributed systems** with monitoring, logging, and CI/CD pipelines

Published research: **NeuroChainOps — Privacy-Preserving Blockchain MLOps Framework for Federated NAS**