

Mudit Rungta

B.Tech in Information and Communication Technology

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Education

Dhirubhai Ambani University (DAU), formerly DA-IICT

B.Tech in Information and Communication Technology | CPI: 8.02/10

2023 - 2027

Gandhinagar, Gujarat

Technical Skills

Languages: Python, C++, Java, SQL, JavaScript/TypeScript, C

AI, ML & Data Science: PyTorch, GNN/GAT, NLP, LightGBM, XGBoost, scikit-learn, SentenceTransformers, SHAP, Optuna
Cloud, DevOps & MLOps: GCP, Kubernetes (K8s), BigQuery, Feast, Terraform (IaC), Docker, Git

Data Engineering & Backend: Spring Boot, FastAPI, Kafka (CDC), Redis, PostgreSQL, MongoDB, Pinecone (Vector DB)

Core CS & Fundamentals: DSA, Distributed Systems, Computer Networks, OOP, DBMS, Linux, REST APIs

Experience

BillDesk

Jul 2026 – Aug 2026

Software Engineering Intern

- Architected a fault-tolerant replication pipeline using **Spring Boot** and **Apache Kafka**, streaming 5M+ daily CDC events with partitioned consumers and sub-150ms end-to-end latency.
- Built a dynamic **SQL** engine with JSONPath evaluation for transactional multi-table fan-out, automating heterogeneous database sync to reduce manual migration effort by 85%.
- Containerized the multi-service test stack (Kafka, MySQL, MongoDB) via **Docker Compose** and built a **CI/CD** pipeline, automating end-to-end testing and cutting setup time by 70%.

Dhirubhai Ambani University (DAU)

May 2026 – Jun 2026

Summer Research Intern

Gandhinagar, Gujarat

- Researched UPI inclusion patterns for informal workers, developing an alternative underwriting prototype with a **FastAPI** risk scoring engine and a **Web Speech** API voice ledger evaluated on 1,200+ merchant cohorts.

Projects

NextChapter – AI-Powered Digital Reading & Book Store Platform | React, FastAPI, Llama, Pinecone, BM25, Supabase 🔄

- Built a full-stack Single-Page Application with a virtualized PDF.js reader engine and LRU canvas cache, delivering sub-50ms page navigation latency.
- Engineered a context-aware RAG pipeline for in-book Q&A using hybrid vector search (Dense Cosine + Sparse BM25) and Groq Llama 3.1, enforcing metadata-filtered retrieval to prevent spoilers and returning page-grounded citations.
- Deployed FastAPI microservices for a SentenceTransformers + Pinecone recommendation engine (lifting discovery CTR to 40%) and multi-tenant Supabase auth/RLS, serving 1,000+ active users with 84%+ RAG groundedness.

Graph-Based Fraud & Mule Account Detection | PyTorch Geometric, GNN/GCN/GAT, XGBoost, RAPIDS (cuGraph) 🔄

- Constructed a transaction graph from 6.3M+ simulated payment records (PaySim) and engineered graph-structural (PageRank, clustering coefficient, k-core) and temporal features to flag fraudulent accounts and mule rings.
- Trained and benchmarked GCN, GraphSAGE, and GAT against an XGBoost baseline using time-based splits; a hybrid GAT + XGBoost stacking model reached 75.0% Precision@100, while standalone GAT hit 0.9129 ROC-AUC.
- Scaled GNN mini-batch training to 3.28M nodes with PyTorch Geometric CUDA extensions and deployed a real-time FastAPI inference endpoint with PSI drift monitoring.

Real-Time IoT Telematics & Predictive Maintenance Cloud Platform | GCP, BigQuery, FastAPI, LightGBM, Terraform 🔄

- Built an end-to-end cloud telematics platform ingesting 10,000+ msg/s of IMU and GPS sensor streams from 30+ fleet assets via GCP Cloud Pub/Sub.
- Implemented a dual-tier Feast feature store with a BigQuery offline lakehouse and a low-latency cache, delivering sub-3ms online feature lookups at zero idle cost.
- Engineered physics-calibrated signal pipelines to train Optuna-tuned LightGBM risk and RUL models, then deployed them as containerized FastAPI services on GCP Cloud Run via Terraform IaC with continuous drift monitoring.

Leadership & Achievements

- Competitive Programming:** Solved 600+ questions on LeetCode; achieved Pupil rating on Codeforces.
- Qualcomm AI Upskilling Certificate:** Hands-On Development from Model to App
- Convener, The Debating Society of DAU** (Jun 2025 – Jun 2026): Led and adjudicated inter-college debates