NIGAM VIPUL MEHTA

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SUMMARY (JOB OBJECTIVES)

Aspiring AI/ML Engineer with hands-on experience designing real-time intelligent systems that combine graph intelligence, hybrid rule-based detection, and applied machine learning. Published researcher with additional experience architecting Android applications and open-source system frameworks. Seeking an AI/ML Engineer/Intern role to apply skills in model design, real-time data pipelines, and explainable AI to solve real-world problems.

EDUCATION

B.Tech, Computer Engineering (Pursuing) — **CGPI: 9.55**
K.J. Somaiya Institute of Technology (KJSIT), Mumbai

Higher Secondary Examination, HSC — 2024 — **69.83%**
Khar Education Society

Secondary Examination, SSC — 2022 — **89%**
SVDD

SKILLS & INTERESTS

Technical: Python, Machine Learning, Graph Intelligence & Graph Neural Networks, Explainable AI (XAI), ZeroMQ, PyQt6, SQLite, Kotlin, Jetpack Compose, Android Development, Data Visualization, Git/GitHub

Languages: English (fluent), Hindi (fluent), Marathi (fluent), Gujarati (native)

Interests: Applied machine learning, real-time systems, financial-crime & fraud detection, explainable AI, mobile app development

PUBLICATIONS & CERTIFICATIONS

Paper Presentation — "AMLynx: Realtime Intelligent Anti Money Laundering Detection and Monitoring System," 11th International Conference on ICT4SD 2026, Hotel Vivanta, Goa, India (Springer Nature, publication partner) — July 2026

PROJECTS

AMLynx — Real-Time Intelligent Anti-Money Laundering Detection & Monitoring System *July 2026*

- Built a real-time AML monitoring framework combining a high-concurrency ZeroMQ event-streaming backbone with a hybrid detection engine fusing stateful rule-based analysis and relational graph intelligence, sustaining 400+ transaction streams/second at sub-2ms latency.
- Implemented HMAC-chained, tamper-evident audit logging and an explainable AI (XAI) alert pipeline for regulatory transparency, with a PyQt6 analyst dashboard for real-time risk visualization.

MuleContagion — AI/ML-Driven Mule Account Detection & Fraud Prevention System *2026*

- Built an AI/ML-based system to detect mule accounts and prevent fraud, submitted to the PSB Cybersecurity, Fraud & Artificial Intelligence Hackathon 2026 (Bank of India × IIT Hyderabad).

Neuma — Cross-Platform Android Music Client *2026*

- Forked and independently engineered an Android music streaming client in Kotlin/Jetpack Compose, unifying Spotify, YouTube Music, and Qobuz into a single interface.

Nyx — Android App for Anime, Manga & Light Novels *2026*

- Audited an open-source extension-based media framework and re-architected its core, replacing Room with SQLDelight, integrating an MPV-based video player with Compose overlays, and evaluating and selecting reliable manga/anime source extensions.
- Designed a floating UI shell supporting 10 distinct color themes and authored a comprehensive technical implementation specification driving the full build in Kotlin/Jetpack Compose.

STRENGTHS

- Rapid understanding of complex technical systems
- Cross-domain integration — bridging AI/ML, real-time systems, and application development
- Strong technical writing and research documentation, evidenced by a published, peer-reviewed conference paper