Nitaanth Panickar

+91 70395 71747 | nitaanth.panickar@gmail.com | linkedin.com/in/nitaanth-panickar-55043523a | github.com/nitaanth-11

Summary

Data Science undergraduate (MPSTME, NMIMS, 2027) and AI engineering intern who builds measurable GenAI and ML systems, from agentic LLM pipelines, RAG and information extraction to forecasting, optimization and fraud analytics, with Python, SQL and cloud APIs.

Education

MPSTME, NMIMS University — Mumbai, India
B.Tech in Data Science; CGPA: 3.3 — *2023 – 2027*

Internship

NobleNet Software Technologies — Mumbai, India
AI Engineering Intern — *Nov 2025 – Jun 2026*

- Developed a production-grade e-commerce website for client perfume brand Maison Momento using Django, React and REST APIs, with a recommendation engine and API gateways.
- Built GenAI agentic workflows with Python, LLMs, APIs and vector databases, including a legal-order comparison agent that reduced manual contradiction analysis by ∼40%; deployed on AWS EC2 with Nginx.

Projects

Beema – Agentic Insurance Claim Intelligence | *LAYA, LangGraph, Databricks, Qdrant* — Oct 2026 – Present

- Building a LangGraph claim-triage agent that uses LAYA risk and escalation decisions to call 5 LLM tools (policy RAG, claim history, similar-claim search, document verification, rule checks) and produce cited reports for claims officers.
- Designing Databricks pipelines for structured and unstructured claims data and a versioned Qdrant knowledge base of policies, SOPs and business rules, served via FastAPI on GCP.

Bandhoo – AI Legal Decision Support & Complaint Structuring | *Python, FastAPI, LangGraph, Gemini API, BM25* — Oct 2026

- Built an agentic NLP and information-extraction pipeline (LangGraph, Gemini) that converts unstructured complaint narratives into structured incident facts using exact-span grounding and semantic contradiction audits, lifting held-out fact-extraction recall to 85.4% (+33.7 pp) at 98.7% precision with a 100% legal-draft integrity pass rate.
- Engineered a hybrid statutory retrieval pipeline (clause-level BM25 max-pooling, decoupled scoring overrides) with 100m-buffered GIS point-in-polygon routing across 102 precincts, cutting false-positive statutory charges to 0.0% under factual negations and preventing jurisdictional station misallocation.
- Authored a research paper on Bandhoo, currently under faculty guide review ahead of conference submission.

SentinelAI – Multi-Scanner Vulnerability Correlation Platform | *Python, Groq, Ollama, Docker, GitHub Actions* — Jul 2026

- Built an extensible DevSecOps CLI orchestrating 5 SAST/SCA scanners (Semgrep, Bandit, GitLeaks, Trivy, OSV-Scanner), achieving 100% deterministic detection in ∼4.47s and reducing alert fatigue by ∼24% via CWE and AST proximity correlation.
- Engineered a multi-provider AI remediation pipeline (Groq Llama 3.3-70B, Gemini 2.5 Flash, local Ollama Llama 3.1) with strict egress controls, secret masking, and AST syntax-validated atomic code patching (`fix` / `undo`).
- Hardened system across 1,100+ automated tests and published checksum-verified multi-arch Docker images; research paper on fail-closed scanning and grounded AI triage shortlisted at ICCIDC 2026 (Bali, Indonesia).

JanRaksha – AI Public Safety & Fraud Intelligence | *Python, FastAPI, LSTM, Gemini API, Neo4j* — May 2026

- Built a real-time scam triage engine using FastAPI, Gemini Vision and LLMs to classify cyber-intimidation cues and forged legal notices across multimodal feeds (screenshots, call transcripts, SMS), reducing verification time ∼45%.
- Developed LSTM and LLM-based NLP models on speech transcripts to classify whether a speaker is a scammer, enabling scam-intent detection.
- Engineered a Neo4j graph pipeline and Leaflet.js geospatial map clustering cross-complaint entities (shared UPIs, suspect numbers, regional hotspots), accelerating syndicate link identification ∼40%.

EventOracle – AI Market Intelligence & Alpha Prediction | *Python, LightGBM, Gemini, MongoDB* — Mar 2026

- Built an event-driven market prediction engine forecasting volatility and asset direction from 50+ cross-asset signals with LightGBM and VaR-based statistical risk analysis, improving directional accuracy ∼40–45%.
- Automated hedging and macro-stress analysis with Gemini, Flask and MongoDB Atlas, cutting options VaR analysis time ∼40%.

FreightIQ – AI Logistics Optimization | *Python, SQL, XGBoost, PuLP, Gemini API* — Feb 2026

- Built a production-style Python pipeline to scrape, transform and store 500+ daily logistics signals (weather, fuel rates, tolls, delivery-partner performance) in SQL for analytics and predictive modelling.
- Ranked carrier delay risk with XGBoost/GBR and optimized multi-carrier allocation with PuLP across cost, capacity and SLA constraints, cutting route evaluation time ∼35% and boosting procurement efficiency 30–40%.

Skills

Languages: Python, SQL, Java, C++, JavaScript
ML & Statistics: Predictive Modelling, Time-Series Forecasting (LSTM), Regression, Classification, Clustering, Gradient Boosting (XGBoost, LightGBM), Linear Optimization (PuLP), Recommendation Engines, Model Evaluation & Validation
NLP & GenAI: LLMs, LLM APIs (Gemini, Groq), Ollama, RAG, AI Agents (LangGraph), LAYA, Prompt Engineering, Information Extraction, BM25, Vector Databases
Libraries: Pandas, NumPy, scikit-learn, SciPy, TensorFlow, OpenCV, YOLOv8, Librosa
Data & BI: Databricks, PySpark, PostgreSQL, MongoDB, Neo4j, Qdrant, Supabase, Tableau, Microsoft Excel
Deployment & Tools: FastAPI, Flask, Django, REST APIs, React, Docker, AWS EC2, GCP, Nginx, Git, GitHub Actions, Linux
Soft Skills & Languages: Communication, Leadership, Problem Solving, Analytical Thinking; German (Basic)

Certifications & Publications

AWS: Cloud Technical Essentials (Feb 2026); Architecting Solutions on AWS (Mar 2026); Building Data Lakes on AWS (Apr 2026)
HuggingFace: AI Agents Fundamentals (Apr 2026); Fundamentals of LLMs (May 2026) | **AICerts**: Managing Projects with AI (Oct 2026)
Publication: *SentinelAI: A Reproducible, Fail-Closed Framework for Correlated Security Scanning and Grounded AI Enrichment*, accepted at ICDECT-2026 (Springer proceedings), Nov 2026

Achievements & Leadership

- Finalist, LoRRI AI Hackathon by LogisticsNow (2026), with FreightIQ; Pre-Finalist, ET AI Hackathon (2026), with JanRaksha.
- Head of Operations, Data Science Committee, MPSTME NMIMS (2025).
- Head of Events, MITHAAS – Annual Magazine Committee, Mithibai College (2022).
- Overseas county cricketer, Middlesex Division II (UK); U/23 Mumbai Cricket Association Camp; NMIMS Cricket Team.