

Dev Chiniwala

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EDUCATION

LNM Institute of Information Technology (LNMIIT)

B.Tech + M.Tech, 5-Year Integrated Dual Degree in Computer Science and Engineering

Jaipur, Rajasthan, India

Aug 2022 – May 2027

EXPERIENCE

Applied AI Engineer

May 2026 – Present

Stealth AI Startup

Remote

- Architected a production-grade Knowledge Engineering pipeline integrating **multi-stage RAG** with hierarchical vector indexing, dynamic context windowing, and entity-linked knowledge graphs, enabling **sub-100ms retrieval** across heterogeneous educational content corpora.
- Designed an LLM-powered Learning Fingerprint system using structured prompt chaining, versioned weight matrices, and context-aware compatibility scoring across subject, grade band, and session format; enforced full audit trails and model-version persistence on every inference for reproducibility and explainability at scale.
- Engineered a multi-modal cognitive assessment pipeline capturing atomic interaction signals (response latency, hesitation, persistence deltas) and mapping them into dynamic student fingerprints across **8 cognitive dimensions**, powering real-time **confidence-weighted** teacher-match recommendations.
- Defined end-to-end system architecture: FastAPI scoring microservice, PostgreSQL append-only interaction ledger (**13 normalized tables**), and Next.js role-based dashboards; enforced child-safe privacy standards with PII minimization, consent gating, and immutable audit logs.

Full Stack Product Engineer

May 2024 – Jun 2025

TRISX Technologies Pvt Ltd, Internship

Remote

- Owned full-stack product engineering across EdTech and FinTech platforms; architected a scalable online examination system for university and government competitive exams with real-time dashboards and optimized candidate workflows end-to-end.
- Developed **25+ RESTful APIs** (Node.js, Express.js, MongoDB) cutting response times by **~40%**; implemented **JWT-based auth and RBAC**, led UI/UX design systems from wireframe to developer handoff, and contributed to a confidential fintech payment platform's secure transaction UX.

Machine Learning Lead

Jul 2024 – Aug 2025

Google Developer Groups on Campus, LNMIIT

Jaipur, Rajasthan

- Directed **15 end-to-end ML/DL projects** spanning CNN image classification, LSTM forecasting, and transformer fine-tuning; mentored **30 developers** in TensorFlow, Keras, and OpenCV, boosting participation by **60%**.

PROJECTS

MNEMOS | Self-Editing Temporal Memory for AI Agents | Python, Neo4j, FastAPI, Cohere

- Architected a **self-editing, bi-temporal memory** runtime for AI agents with a **6-signal hybrid retrieval fusion** engine (semantic, BM25, graph, temporal decay, cognitive, tier) and a Neo4j-backed knowledge graph with Personalized PageRank traversal.
- Built a **Plan → Search → Integrate → Reflect** research-agent loop, adaptive token-budgeted context packing (tiktoken-precise, trigram dedup), and an ECL ingestion pipeline enriching memories with emotional salience and FSRS spaced-repetition scheduling.

ControlSurface | Production Reliability Platform for AI Agents | Python SDK, Next.js, PostgreSQL, ClickHouse

- Built an **OpenTelemetry**-native observability platform ingesting OTLP/HTTP and OTLP/gRPC agent traces into a PostgreSQL durable inbox and ClickHouse store, deriving a framework-independent **AgentRunGraph** across model, tool, retrieval, and memory spans.
- Engineered deterministic failure-signature clustering, SLO-based health monitoring, and a **content-hashed, append-only release-gate** pipeline converting reviewed production incidents into regression test suites for CI evidence.

LNMIIT Faculty Recruitment Portal | Live Production System | Python, NLP/NER, React, REST APIs

- Engineered an NLP document-ingestion pipeline using **Named Entity Recognition** and heuristic pattern matching to auto-extract structured academic, research, and industrial-experience entities from unstructured PDF/DOCX resumes with **zero manual data entry**.
- Built a deterministic verification layer integrating the **Crossref API** and Scimago Journal Rank data to auto-validate SCIE/SSCI indexing and journal quartiles, with RBAC-secured portals and dynamic A4 PDF synthesis; **live in production at LNMIIT**.

TECHNICAL SKILLS

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

AI & ML: TensorFlow, PyTorch, Keras, LangChain, Hugging Face, FAISS, Pydantic, LLMs, RAG, Multi-Agent Systems, Prompt Engineering, Computer Vision, NLP, NER, Deep Learning

Web & Backend: React, Next.js, FastAPI, Node.js, Express.js, REST APIs, GraphQL, PostgreSQL, MongoDB, ClickHouse, Redis, Neo4j

DevOps & Cloud: Docker, Kubernetes, Git, GitHub Actions, AWS, GCP, OpenTelemetry, Linux, Bash

CERTIFICATIONS

Complete Data Science, ML, Deep Learning & NLP Bootcamp – Udemy Introduction to Cybersecurity & Networks – Cisco
Intro to SQL – Kaggle Advanced SQL – Kaggle