

D L Narayana

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PROFILE

Computer-science student building production-shaped systems: real-time CDC lakehouses and PySpark warehouses with explicit schemas, data-quality gates and idempotent, tested transforms; full-stack products on Next.js, TypeScript and PostgreSQL; and AI features — LangGraph agents with human-in-the-loop safety gates, hybrid RAG, and on-device ONNX/WASM inference. 17 public repositories, 14 live deployments.

SELECTED PROJECTS

LakeFlow — Data engineering

Sep 2026 · github.com/D-L-Narayana/lakeflow-cdc-pipeline

Real-time CDC lakehouse: Postgres → Debezium → Kafka → Spark → Bronze/Silver/Gold.

510,663 CDC events replayed **29.5 s** end-to-end to Gold (2 vCPU) **~17.3K/s** events per second **5,239** rows quarantined with reasons

PySpark · Structured Streaming · Kafka · Debezium · PostgreSQL · Parquet · Airflow · Docker Compose · pytest

Retail Lakehouse ETL — Data engineering

Sep 2026 · github.com/D-L-Narayana/retail-lakehouse-etl

Schema-enforced PySpark batch warehouse over a million defective sales lines.

1,009,989 raw sales lines read **50.9 s** end-to-end (~19.8K rows/s) **9,993** duplicates removed **1.30%** quarantined, per-rule breakdown

PySpark · Spark SQL · Parquet · MongoDB · Airflow · pytest · Python 3.12

AeroSentry — AI & computer vision

Sep 2026 · github.com/D-L-Narayana/aerosentry-agents

Multi-agent AI operations layer for autonomous drone fleets, with a human in the loop.

3 + 1 specialist agents + supervisor **17** offline tests in CI **HITL** approval gate on every high-risk action **p50/p95** latency tracked in golden-set evals

Python · LangGraph · Pydantic · FastAPI · Hybrid RAG (BM25 + dense, RRF) · SQLite · Docker · GitHub Actions

VeriLens — AI & computer vision

Jul 2026 · github.com/D-L-Narayana/verilens

On-device KYC: face match, passive liveness, OCR and tamper forensics — 100 % in the browser.

-66 % model payload (16.6 → 5.6 MB) **0.85 / -0.01** genuine vs impostor cosine **0.998 vs 0.06** live vs replay liveness probability **~48 ms** three models on 2 vCPUs

ONNX Runtime Web · WASM · Tesseract 5 · Python (quantisation + eval) · Vanilla JS · Playwright

StayNest — Full-stack product

Jun 2026 · github.com/D-L-Narayana/staynest

Full-stack Airbnb-style marketplace with a working booking flow and host analytics.

16 stays across 8 categories **100+** reviews driving computed ratings **1,200+** Q&A pairs in the built-in assistant **32** commits

Next.js · TypeScript · Supabase (Postgres + Auth) · Tailwind CSS · Motion · OpenStreetMap

CityHelp — Full-stack product

Jun 2026 · github.com/D-L-Narayana/cityhelp

Civic platform: report city issues, upvote, and track fixes on a live dashboard and map.

Realtime Supabase-powered dashboard + map **7-day** trends, category mix, department load **18+** wards tracked in the demo dataset

Next.js · TypeScript · Supabase Realtime · PostgreSQL · Recharts · API Routes

EDUCATION

B.Tech, Computer Science & Engineering

GITAM, Visakhapatnam · Class of 2027 ·

CGPA 7.97 / 10

SKILLS

Data

Apache Spark, PySpark, Spark SQL, Structured Streaming, Apache Kafka, Debezium CDC, Apache Airflow, Parquet lakehouse, Star schema · SCD2, Data-quality gates, PostgreSQL, MongoDB, Docker Compose, pytest

Web

TypeScript, React, Next.js, Node.js, Python, Java, SQL, Prisma, Tailwind CSS, Motion, Supabase

AI

LLM integration, RAG pipelines, Embeddings & vector search, AI agents (LangGraph), Evals & guardrails, ONNX Runtime Web, PyTorch

Fundamentals

Data structures & algorithms, OOP, DBMS, Operating systems, Computer networks, System design

Exploring

Databricks & Delta Lake, Snowflake, Hadoop / Hive, Kafka Streams, Data contracts

PRINCIPLES

Idempotent pipelines · explicit schemas · tests for every transform · metrics for every run.

PUBLIC RECORD

Public repos Commits
17 220

Live deployments Snapshot
14 15 Sep 2026