

Rudra Solanki

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EDUCATION

Manipal Institute of Technology

Bengaluru, KA

Bachelor of Technology (B.Tech) in Information Technology

Expected June 2027

- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Management (SQL), Object Oriented Programming (Java), Computer Networks, Cryptography, Agile Software Engineering, Software Testing, Artificial Intelligence, Machine Learning, Data Mining, Android Development

EXPERIENCE

CandidRoot Solutions Pvt. Ltd. — Data Analytics Intern

May 2026 – July 2026

Odoo Silver Partner

Ahmedabad, GJ

- Built SQL-based ETL pipelines to extract, clean, and standardize client datasets, reducing manual reporting effort by almost 60% and improving data reliability.
- Analyzed datasets to surface trends and KPIs, delivering Power BI dashboards supporting client-facing decisions.

Placement Committee

July 2025 – December 2025

Member at CECAS, Manipal Institute of Technology

Bengaluru, KA

- Maintained structured corporate databases to support campus recruitment outreach.
- Coordinated end-to-end hiring drives, aligning with HR on talent acquisition goals.

PROJECTS

Drifting Oracle | *FastAPI, Python, React, Databricks, XGBoost, Docker, Kubernetes, Prefect, CI/CD, LangGraph, ChromaDB*

- Architected a drift-aware credit-risk scoring system monitoring 7 features via Population Stability Index (0.25 threshold) to auto-trigger Champion/Challenger XGBoost retraining, improving AUC from 0.73 to 0.76. Persisted predictions, drift events, and logs through the Databricks SQL Statement API to Unity Catalog Delta tables, with experiments tracked in MLflow.
- Containerized and deployed the service with Docker and Kubernetes, orchestrated drift-triggered retraining as a Prefect flow, and ran a 47-test pytest suite through a GitHub Actions CI/CD pipeline with code review.
- Designed a LangGraph predict → explain → evaluate agent generating loan-rejection explanations using Llama (Ollama) and Gemini, grounded against RBI/SEBI regulations via ChromaDB retrieval (RAG). Built a custom hallucination-detection metric that auto-retries flagged output.

PitWall | *Python, FastAPI, React, TypeScript, RAG(ChromaDB), LLM/Groq, FastF1 API, Render, Vercel*

- Developed a multi-agent RAG system (6 agents + orchestrator) using ChromaDB vector search and Groq LLM APIs to answer race-analytics queries over 30K+ records.
- Implemented a 15-endpoint FastAPI backend with SQLite-backed pipelines ingesting and serving race data using Python ETL scripts.

QuantForge — Production-Grade Quantitative Trading Platform | *Python, FastAPI, PostgreSQL, Redis, Docker*

- Engineered an event-driven backtesting engine in Python simulating trade execution (slippage, fees, position sizing) through a 4-stage **Market→Signal→Order→Fill** pipeline. Validated with 126 pytest unit tests across 10 modules.
- Built a quantitative performance analytics layer computing 7 metrics (Sharpe, Sortino, CAGR, Max Drawdown, VaR, Calmar Ratio) exposed through a Pydantic-validated REST API, backed by a containerized PostgreSQL layer across 6,800 lines of type-hinted Python.

ACHIEVEMENTS

Top 10 Finalist, Manipal Hackathon 2025 – Ranked 6th out of 869 teams nationwide for ResourceX, a sustainable supply chain digital twin.

Top 6 Finalist, Manipal TechFest 2025 – Ranked 6th out of 64 teams for Spendwise, a budget tracker with impulsive purchase detection and chatbot for budgeting advice.

Top 25 Semi-Finalist, Honeywell Hackspace 2025 – Shortlisted as Top 25 Semi-Finalist by Honeywell judges for WeathAware, reports summariser for pilots and ATC.

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (Postgres, Oracle), JavaScript

Frameworks and Libraries: React, FastAPI, Flask, Material-UI, TensorFlow, Scikit-Learn, Pandas, Numpy, Pattern Recognition, XGBoost

MLOps & Cloud: Databricks (Delta Lake, Unity Catalog, MLflow), Docker, Kubernetes, Prefect, GitHub Actions (CI/CD)

GenAI & Agentic AI: LangGraph, ChromaDB (RAG), Ollama, Gemini

Data Analytics: Exploratory Data Analysis(EDA), Statistical Modelling, Feature Engineering

Tools: Git, Jupyter, Supabase, Postman, PowerBI, Tableau