

Janhavi Nilesch Bhattad

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Education

Manipal Institute of Technology, Bengaluru

B.Tech in Computer Science (Artificial Intelligence) | Minor in Data Analytics | CGPA: 8.02

May 2027

Bengaluru, Karnataka

St. Mary's School

Higher Secondary Education | Grade: 96%

May 2021

Pune, Maharashtra

Experience

CandidRoot Solutions Pvt. Ltd. | Odoo Silver Partner | Data Analytics Intern

May 2026 – July 2026

Ahmedabad, Gujarat

- Cleaned and validated client master data with Python (pandas, fuzzy deduplication) into staged PostgreSQL tables, reducing manual audit effort from days to under an hour.
- Built SQL ETL over Odoo's PostgreSQL schema for cost roll-ups, inventory ageing, and receivables/stock reconciliation, and developed Power BI dashboards for ageing, per-unit margin, and branch profitability, closing ~Rs 1.3L variance and replacing weekly Excel reporting.

Nanostuffs Technologies | Software Development Intern

May 2025 – July 2025

Pune, Maharashtra

- Built responsive React components for Career Mantrana, an ed-tech college-predictor tool used for student admissions guidance, and implemented UI features.

Projects/Research Papers

ClaimPilot – Multi-Agent Claims Automation | Python, LangGraph, FastAPI, XGBoost, ChromaDB, Ollama, React, Docker

- Built for the AgentOps 2026 Hackathon (MIT Bengaluru × CGI): a LangGraph orchestrator coordinating 12 agents across a 15-state claim lifecycle, from admission to settlement; caught 47/47 planted errors on 55 held-out test cases and cut insurer queries from 5 to 0.
- Kept AI out of money decisions: a deterministic rules engine computes every amount and cites its policy clause, a human approves every submission, and the LLM only drafts text; added XGBoost denial-risk models (0.986 ROC-AUC) with SHAP explanations and a cited ChromaDB RAG assistant.
- Benchmarked against baselines with a 4-agent simulated insurer, where evidence-backed appeals recovered Rs 20,690 the baselines missed; shipped as FastAPI + React with live agent traces, one-command Docker setup, and 227 tests.

AskQL – Agentic Business Analytics Chatbot | Python, LangGraph, FastAPI, DuckDB, Next.js, TypeScript, Gemini API, Ollama

- Built an agentic business-analytics chatbot that converts plain-English questions into SQL, validates execution with sqlglot, self-corrects failures, selects charts, and generates natural-language insights; improved end-to-end success from 70% to 100% (13/13) using a self-correction retry loop.
- Engineered a deterministic DuckDB data-simulation engine generating 20 months of evolving company data across 24 products, ~37K sales, 780+ customers, and 63K+ support tickets in under 4 minutes, with scheduled daily updates.
- Shipped a Next.js/TypeScript frontend with real-time SSE streaming and dynamic Recharts visualizations, backed by Gemini + local Ollama failover, idle-timeout handling, and 39 automated tests for reliable upstream failure recovery.
- Built a persistent Power BI-style dashboard layer where users can pin, arrange, and resize chart answers; tiles re-query DuckDB on load with SQLite metadata persistence and sqlglot validation to keep results current and safe.

The Drifting Oracle | Python, FastAPI, React, Databricks, XGBoost, Docker, Kubernetes, Prefect, LangGraph, ChromaDB

- Engineered a drift-aware credit-risk model using PSI (0.25 threshold) across 7 features, triggering Champion (20 features) / Challenger (8 features) XGBoost retraining and promoting models only when AUC improved (0.76).
- Productionized the pipeline with Docker/Kubernetes, Prefect, Databricks Unity Catalog, MLflow, and a 47-test pytest suite enforced through GitHub Actions CI/CD.
- Implemented a LangGraph + ChromaDB RAG agent for loan rejection explanations grounded in RBI/SEBI regulations, with automatic hallucination detection and retries.

QuantForge | Python, FastAPI, PostgreSQL, Redis, Docker, Next.js, WebSocket

- Engineered a historical backtesting engine with slippage, fees, and position sizing through a Market→Signal→Order→Fill pipeline.

- Established a Pydantic-validated REST API with 21 endpoints covering Sharpe, Sortino, CAGR, Max Drawdown, VaR, and Calmar risk metrics.
- Containerized with Docker/Kubernetes, HPA, Prometheus/Grafana, and Redis caching, reducing API latency 2.4× (17.9ms → 7.4ms).

PitWall | *FastAPI, Python, React, TypeScript, Snowflake (Cortex Search), Groq, SQLite, Multi-Agent Orchestration, Vercel*

- Built a full-stack F1 race-strategy assistant using RAG over real race telemetry, enabling natural-language analysis of pit calls, tyre choices, and weather impact.
- Indexed ~30.6K lap, 4.3K weather, and 1K+ pit-stop records across 4 Snowflake Cortex Search services, using server-side embeddings to reduce memory usage.
- Exposed 15 FastAPI endpoints paired with ETL pipelines for structured race data ingestion, transformation, and retrieval across lap, weather, pit-stop, and circuit datasets.
- Engineered 6-agent orchestration (tyre, weather, radio, rivals, circuit, data) with an LLM router selecting 1–3 specialists concurrently; exact numeric queries bypass the LLM via direct SQL, with Groq GPT synthesizing results.

BI Dashboards | *Tableau, Power BI*

- Global BMW Sales: 253M+ units across 11 models and 6 regions (2010–2024), segmented by fuel type and transmission.
- EU Pharma Sales: 62K+ transactions across 9 countries, 15 DAX measures, €8.6M revenue, and 28% margin.

Technical Skills

Languages: Python, Java, SQL, C++, C, JavaScript

Frameworks: React, Material-UI, TensorFlow, Scikit-Learn

ML & GenAI: ML, DL, CV, NLP, Pattern Recognition, PyTorch, XGBoost, RAG, LLM APIs, Vector DBs, Prompt Engineering, LangGraph, ChromaDB, Ollama, Gemini

Data Analytics: EDA, Statistical Modeling, Feature Engineering, Pandas, NumPy, Power BI, Tableau

Backend & DBs: FastAPI, PostgreSQL, SQLite, DBMS

MLOps & DevOps: Docker, Kubernetes, CI/CD, Git, Databricks, Prefect, GitHub Actions

Tools: Jupyter, Supabase

Achievements

- 6th/869 teams, Manipal Hackathon 2025 (ResourceX).
- 6th/64 teams, Manipal TechFest 2025 (Spendwise).
- Top 25 semi-finalist, Honeywell HackSpace 2025 (WeathAware).

Social Engagements

Social Media Manager: Closeted (Fashion Club), Photography Club, Neura AI (AI Technical Club)

Volunteer: Volunteer Students' Organisation, Manipal; Sofosh, Pune

Athletics: District Level Basketball player and Swimmer