

Het Patel

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EDUCATION

Pandit Deendayal Energy University

*B.Tech in Information and Communication Technology,
Minor in Computational Data Science*

8.8 CGPA

Aug 2022 – May 2026

PROJECTS

Databricks FMCG ETL Pipeline

- Architected a 3-stage Medallion data structure (Bronze, Silver, Gold) in Databricks and Delta Lake, streamlining raw file ingestion, data cleansing, and star-schema dimensional modeling.
- Implemented incremental `MERGE INTO` upsert logic using Delta Lake and PySpark, reducing pipeline execution time and compute costs by ~75% compared to full historical reloads.
- Modeled a Star Schema data architecture and denormalized Gold reporting views using Databricks SQL, accelerating BI dashboard query response times by 40%+.

Stock Market Forecasting using LSTM, BiLSTM & VMD

- Ingested multi-year 1-minute bars, resampled to 5-minute OHLCV, and trained with a 24-bar lookback, 70/15/15 split, EarlyStopping + best-checkpoint.
- Engineered indicators (SMA/EMA/WMA/KAMA, Bollinger, RSI, MACD, ADX, ATR, OBV, lags) and kept only high-correlation predictors ($|\rho| \geq 0.85$ with close).
- Benchmarked univariate & multivariate LSTM / BiLSTM against VMD-BiLSTM (K=4 IMFs); the hybrid reconstructed price and outperformed all baselines on R^2 / MAE / RMSE / MAPE.

EXPERIENCE

Trionic Technologies LLP

Software Developer Intern (AI/ML)

Jan 2026 – Present

Ahmedabad, India

- Designed and shipped an intraday agentic NSE trading system where LLMs only propose trades; schema validation, sanity checks, and a deterministic RiskGovernor approve / reject / halt before any order reaches Zerodha via Kite MCP, with DRY.RUN / PAPER / LIVE gates.
- Built the news $\rightarrow$ ticker $\rightarrow$ NewsRank pipeline (NSE/BSE + RSS + Yahoo): nil-filing filters, taxonomy scoring with recency decay, and MIS limits-backed by 15+ live risk controls.
- Added an offline safeguards backtest (RiskGovernor + Yahoo OHLC) reporting win rate and wallet return (e.g. RELIANCE ~37% win rate, ~+6% return), plus a hybrid YAML+Python harness with 67+ pytest cases across risk, API, and trading workflows.

ACHIEVEMENTS & COMPETITIVE PROGRAMMING

- Meta Hacker Cup (2025)** – Global Rank **752** out of **24k+** participants [Round 1], Global Rank **1288** out of **5k+** participants [Round 2]. [🔗](#)
- TCS CodeVita Season XIII** – Global Rank **8524** out of **146k+** participants. [🔗](#)
- NPTEL Course** - Completed NPTEL Online Certification in "Understanding Incubation and Entrepreneurship" with a score of 70%. [🔗](#)
- LeetCode - **HetPatel1177** [🔗](#) Highest Rating: **1730** Top 11.79%
- Codeforces - **hetpatel12** [🔗](#) Highest Rating: **1415** [Specialist]

TECHNICAL SKILLS

- Languages:** SQL, Python, C++, JavaScript, HTML5, CSS3
- Frameworks & Libraries:** dbt, Streamlit, Pandas, React.js, TailwindCSS
- Tools, Databases & Platforms:** Amazon S3, Git, MySQL, VS Code, Jupyter Notebook, Google Colab
- Concepts & Methodologies:** Data Engineering, Medallion Architecture, ETL/ELT Batch Pipelines, Data Structures & Algorithms, OOP, AI & ML Fundamentals