

Satwik Medipalli

Data Scientist / Data Analyst — SQL, Causal Inference & Machine Learning
Richardson, TX | 945-544-2418 | sathwik.medipalli@gmail.com | LinkedIn | GitHub | Portfolio

SUMMARY

UT Dallas M.S. Business Analytics (May 2026) candidate with three analytics internships and four live data products: SQL/BI reporting for executive stakeholders, causal evaluation on 5.6M+ Statcast pitches, fleet reliability ML, and an S&P 500 research terminal with risk analytics and backtests.

DEPLOYED PROJECTS

Lumen: S&P 500 Market Research Terminal

Summer 2026

Python, FastAPI, SQL, SEC XBRL | Live Demo

- Built a live S&P 500 analytics terminal on Yahoo quotes, SEC XBRL financials, and FRED macro data with a quant risk lab (beta, Sharpe, drawdown, correlations), portfolio backtester, and source-linked insights across 500+ companies

ShapeShift: Causal Evaluation of MLB Pitch Redesigns

Spring 2026

Python, DuckDB, scikit-learn | Live Demo

- Ran a locked 2025 matched event study on 5.6M+ Statcast pitches (381 pairs), reported an honest null (+0.02 RV/100), and delivered Keep / Reshape / De-emphasize recommendations for pitch-design decisions

SiliconSentinel: Fleet Reliability & Predictive Maintenance

Fall 2025

Python, XGBoost, SQL, lifelines | Live Demo

- Modeled 30-day failure risk for a 10,000-device fleet across 12 sites with survival analysis and XGBoost RUL scoring (83% recall at 80% precision), plus SHAP drivers and an ops queue for RMA vs monitor decisions

NFL Edge: Front-Office Decision Analytics

Fall 2025

Python, SQL, statistics | Live Demo

- Built a front-office analytics OS grading play-call predictability, roster value, and cap efficiency across all 32 NFL teams to surface wasted spend and telegraphed tendencies

EXPERIENCE

AI Research Intern

Jan 2024 – Apr 2024

Boltzmann Labs

- Built a Python preprocessing engine that auto-detects three biological data types across ~500K records at 85%+ accuracy, replacing manual prep for the research team
- Deployed the ML backend with Docker, Kubernetes, and AWS S3 behind REST APIs for product and frontend consumption

Data Analytics Intern

Aug 2023 – Dec 2023

Bostonlogix

- Migrated ~1M records into a SQL Server analytics store, restored ~1,000 failing API endpoints, and automated NLP extraction from ~100K unstructured records with Azure OpenAI
- Built Bold BI KPI dashboards for Hungry Jack's used in shareholder reviews of network-wide store performance

BI Developer Intern

Apr 2023 – Jul 2023

Ideabytes

- Streamed ~500K IoT sensor datapoints into Power BI and presented the live operations dashboard to the CEO
- Delivered regression and ARIMA forecasts at 92–95% one-month accuracy to drive proactive maintenance scheduling

EDUCATION

University of Texas at Dallas

Richardson, TX

M.S. Business Analytics

May 2026

GITAM University

Hyderabad, India

B.Tech Computer Science with Data Science

May 2024

TECHNICAL SKILLS

Analytics & SQL: SQL (SQL Server, PostgreSQL), Python (Pandas, NumPy), DuckDB, statistics, A/B & causal inference, forecasting (ARIMA, regression), KPI design

Machine Learning: Scikit-learn, XGBoost, SHAP, survival analysis (lifelines), model validation, explainability

BI & Visualization: Power BI, Tableau, Bold BI, Streamlit, Plotly, executive dashboards, stakeholder reporting

Data Eng & Cloud: MongoDB, AWS S3, Azure, FastAPI, Docker, Git, Postman