

Satwik Medipalli

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SUMMARY

MS Business Analytics graduate with 3 internships shipping production AI systems. 4 deployed platforms with live URLs. Published on SSRN. Built NLP pipelines processing 100K+ records, ML backends on AWS, and multi-agent AI systems using LangGraph, CrewAI, and Pinecone.

EDUCATION

University of Texas at Dallas
M.S. Business Analytics

Richardson, TX
May 2026

EXPERIENCE

AI Research Intern
Boltzmann Labs

Feb 2024 – Apr 2024

- Engineered a format-aware Python preprocessing engine that auto-detected 3+ biological data types across 500K+ records at 85%+ accuracy, replacing a fully manual data preparation workflow
- Deployed the ML backend using Docker, Kubernetes, and AWS S3, transforming a local prototype into a scalable cloud platform with REST APIs enabling frontend integration
- Analyzed competitor platforms and datasets across the biotech analytics landscape, translating findings into product requirements that shipped as core features in BoltBio across 3+ biological data formats

Data & AI Intern
Bostonlogix

Sept 2023 – Dec 2023

- Developed an NLP pipeline using OpenAI APIs and Microsoft Azure that extracted structured data from 100K+ unstructured text records, fully automating a manual review process and eliminating hours of weekly analyst effort
- Migrated 1M+ records from MongoDB to SQL Server using Python, converting unstructured client data into a queryable analytics format; audited and restored 1000+ failing API endpoints using Postman
- Designed KPI dashboards in Bold BI for Hungry Jacks that surfaced operational metrics for shareholder reviews, enabling leadership to make data-driven decisions on store performance

Data Analytics Intern
Ideabytes

Apr 2023 – Jun 2023

- Built a real-time data ingestion pipeline processing 500K+ JSON sensor datapoints via APIs into Power BI and presented the live dashboard to the CEO, driving executive decisions on sensor deployment and resource allocation
- Developed linear regression and ARIMA forecasting models predicting sensor performance at 92-95% accuracy (1-month) and 80-90% accuracy (12-month), enabling proactive maintenance scheduling before failures occurred

PROJECTS

Diligence AI: Autonomous Due Diligence Platform | *LangGraph, CrewAI, Pinecone* | [diligence-ai.vercel.app](#)

- Built autonomous due diligence platform using six AI agents across LangGraph, CrewAI, OpenAI Agents SDK, and Pydantic AI that extract financials, classify risks, and generate consulting-grade reports from 10-K filings in minutes
- Implemented Pinecone vector search and a RAG follow-up interface evaluated with RAGAS for answer faithfulness, enabling users to ask natural language questions over analyzed financial documents with cited sources

VoiceIQ: AI Agent Testing Platform | *Python, LLMs, Streamlit, Plotly* | [voice-agent.vercel.app](#)

- Created a voice agent testing platform that simulates conversations across 10 scenario types using a two-LLM loop, scoring agent performance across 5 dimensions with self-consistency tracking and weighted scoring
- Developed a calibration system using Bland-Altman analysis, Pearson/Spearman correlation, and precision/recall tracking to validate the LLM judge, backed by 70 unit tests and pre-seeded database for instant deployment

NFL Draft Intelligence System | *Python, XGBoost, SHAP, SQL* | [nfl-draft-intelligence.vercel.app](#)

- Developed a draft prospect evaluation platform training position-specific XGBoost classifiers with SHAP explainability and a cosine similarity comp engine across two decades of NFL Combine data, deployed on Vercel

NFL Edge: Front-Office & Coaching Analytics | *Python, SQL, Next.js* | [nfl-edge.vercel.app](#)

- Designed three analytics engines grading play-calling predictability, roster efficiency (EPA per cap dollar), and in-game decision quality across all 32 NFL teams, deployed as a production web app on Vercel with interactive dashboards

TECHNICAL SKILLS

AI & ML: LangChain, LangGraph, OpenAI APIs, Pinecone, RAGAS, CrewAI, Pydantic AI, XGBoost, SHAP, Scikit-learn, BERT/Transformers

Languages: Python, SQL, R, JavaScript

Infrastructure: AWS S3, Microsoft Azure, Docker, Kubernetes, FastAPI, Flask, Git, Postman

Data & Visualization: Pandas, NumPy, MongoDB, PostgreSQL, Power BI, Tableau, Bold BI, Streamlit