

# Bhargav Rishi Mediseti

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## Summary

Data Professional with **3+ years** of experience bridging Data Engineering, AI, and Analytics. Expert in architecting scalable ETL pipelines (Ab Initio, GCP), building Agentic AI systems (RAG, LLMs), and driving business insights (Tableau, PowerBI, SQL). Proven track record of migrating enterprise-scale legacy systems and delivering full-stack AI solutions that improve operational efficiency and decision-making

## Education

### University of South Florida

Master of Science in Artificial Intelligence & Business Analytics

Aug 2024 – May 2026 (Expected)

GPA: 4.00

## Professional Experience

### Graduate Research Assistant – University of South Florida, Tampa, FL

Jan 2025 – Present

- Advanced nutritional health by architecting a dual-mode recipe recommender (FastAPI/React); integrated a rule-based engine with a RAG-powered Assistant (ChromaDB/OpenAI) and engineered a scalable Docker/AWS ECS deployment to deliver real-time, medically compliant meal suggestions
- Automated instructor outreach by **~70%** through the development of CRAFT, a Django-based Azure application using integration of Canvas LMS via REST APIs to enable personalized and bulk communication with students
- Enabled technical proficiency for **700+ students** by leading targeted training sessions on Tableau, MS Office, and Data Analytics, significantly improving on-time project submission rate

### Senior Systems Engineer (Data Engineer) – Infosys/Virgin Media, Hyderabad, India

Jan 2021 – May 2024

- Accelerated reporting speed by **60%** through the design of Ab Initio pipelines managing **40M+** records, establishing a robust foundation for downstream BI and analytics
- Optimized system performance by migrating **50M+ records** to Google Cloud Platform (GCP) with **100% accuracy**; improved retrieval efficiency by **20%** through advanced indexing and query tuning
- Strengthened data security by orchestrating **\$13M** in GDPR compliance initiatives; safeguarded **~\$45M** in risk via data masking and lineage controls while aligning legal and technical teams
- Orchestrated enterprise data models for **98% of the UK population**, automating weekly refreshes to support critical stakeholder decision-making

## Project Experience

Aug 2024 – Dec 2025

- USF Concierge Multi-Agent RAG System (GenAI)** - Architected an AI 'Digital Concierge' using Python to streamline university onboarding; leveraged Supabase pgvector and recursive chunking for high-precision document retrieval, while implementing MCP tools for secure, human-verified Gmail and Calendar actions
- Skeleton Action Recognition (Computer Vision, PyTorch)**- Engineered 3D skeleton gesture recognition for human-robot interaction; achieved **78% accuracy** by benchmarking ST-GCN, TCN, and Transformers
- Emissions vs. Asthma Public Health Analysis (Tableau, Statistical Analysis)** - Conducted a 50-state analysis of EPA/CDC data to test emissions–asthma correlations; built Tableau dashboards to visualize per-capita trends and density maps, identifying key disparities after rigorous statistical normalization
- NYC Motor Vehicle Collisions Analytics (.NET)** - Developed a scalable ASP.NET Core MVC app using live Data.gov APIs; deployed on Azure to enable secure, public access to real-time collision data and CRUD features

## Skills

**Data Engineering:** Ab Initio, ETL/ELT, Snowflake, Google Cloud Platform, Amazon Web Services, Microsoft Azure  
**Machine Learning & AI:** Scikit-learn, PyTorch, TensorFlow, RAG, LangChain, Transformers, Computer Vision, NLP  
**Data Analysis & Viz:** Tableau, Power BI, Excel, R Studio, HTML/CSS/JS, Pandas, NumPy, Statistical Modeling  
**Programming & Databases:** Python, SQL, Linux/UNIX, C#, Django, Oracle, PostgreSQL, MongoDB, Vector DBs  
**Tools:** Docker, Jenkins, Git, Control M, JIRA, SSIS, SSRS

## Certifications & Awards

- Snowflake SnowPro Associate (2025), Google Certified Associate Cloud Engineer (2024)
- Received Infosys' "INSTA" Award **4 times** for consistent delivery excellence and exceeding expectations