

Anantha Jayaram Avula

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Visa Status: Currently on F1 OPT with 2 years STEM extendable

PROFESSIONAL SUMMARY

Data Analyst with **3+ years of experience** delivering KPI dashboards and actionable insights using **Power BI (Power Query, DAX, data modeling)**, **SQL (CTEs, window functions)**, and **Excel (PivotTables, Power Pivot, XLOOKUP/VLOOKUP)**. Experienced in **data validation, metric standardization, and requirements-to-dashboard delivery** in Agile teams with **UAT, user stories/acceptance criteria, and JIRA/Confluence**.

TECHNICAL SKILLS

Data Analysis & BI: Power BI (Power Query, DAX, Data Modeling), Tableau, Excel (PivotTables, Power Pivot, XLOOKUP/VLOOKUP), KPI Dashboards, Data Visualization

SQL: CTEs, Windows & Ranking functions, Data modeling, Query Optimization

Programming: Python (pandas, NumPy, Matplotlib, Seaborn), R

Statistics: Hypothesis Testing, Regression, A/B Testing, Time Series forecasting, predictive modeling

Data Quality: User Stories, UAT, Agile/Scrum, JIRA/Confluence, Visio

Additional (Projects): Agentic AI, LLM, Machine Learning (scikit-learn, model evaluation, SHAP), AWS (S3, IAM, EC2, CloudWatch), Azure, Git/GitHub, Jupyter Notebook

WORK EXPERIENCE

HealthTech Systems

Richardson, TX, USA

Data Analyst

May 2025 - Present

- Developed and enhanced **2–4 Power BI dashboards** (Power Query, DAX, star schema) to support recurring healthcare operations reporting (**service delivery KPIs**), used by **15–20 stakeholders** in quarterly business reviews.
- Performed **15–30 SQL validation checks** (reconciliation, completeness, duplicate/NULL checks, outlier flags) to standardize KPI logic and reduce repetitive reporting errors during release.
- Delivered **2–3 stakeholder updates/month** with trend and variance analysis, highlighting top drivers/exceptions and documenting action items for follow-up.
- Worked in **Agile/Scrum**, contributing **6–12 user stories/sprint**, defining acceptance criteria, and supporting **UAT (8–15 test cases/release)** tracked in **JIRA/Confluence**.
- Supported reporting reliability by monitoring refresh/access issues and coordinating fixes, typically resolving common breaks within the **same day to 1–2 business days**.

Infosys

Hyderabad, TG, India

Data Analyst

Jan 2021 - Jul 2023

- Built and maintained **6–10 recurring KPI reports** in **Excel** and **Power BI**, delivering weekly/monthly performance tracking for **5–12 stakeholders**.
- Leveraged tools such as Tableau Desktop, Tableau Server, SQL, and Excel to streamline data management processes, reducing human dependency by **25%** while leading stakeholder engagement and ensuring timely project delivery.
- Gathered requirements and translated them into **10–20 user stories/quarter**, defining acceptance criteria and supporting **UAT (15–30 test cases/release)** with defect triage in **JIRA/Confluence**.
- Performed approval-based **production SQL querying 2–5 times/week** for incident RCA and urgent reporting fixes, validating row counts, logic, and metric definitions for rapid recovery.

ACADEMIC PROJECTS

Conagra Brands – Sales & Marketing Analytics

Mar 2025 – May 2025

- Conducted competitive and portfolio analysis, quantifying share gap (**21.4% vs 46.7%**) and identifying growth recommendations.
- Identified **3 missing flavor profiles**, estimating **65M+ units/year** incremental demand opportunity.
- Built a regression-based sales driver model (LASSO), achieving **test R² = 0.87** and explaining ~85% variance in unit sales.
- Quantified promo/seasonality effects; found “Feature & Display” promotions delivered the highest lift (**~2x vs baseline**), informing promo strategy.

Cloud-Based Predictive Outage Monitoring – AWS

Dec 2024 – Feb 2025

- Built a KPI reporting layer in Power BI using Redshift data, tracking tower health metrics to enable faster operational decisions.
- Ingested sensor metrics every **60 seconds** via IoT/Kinesis and implemented anomaly detection to flag risk conditions early.
- Predicted potential equipment failures ~**48 hours** in advance to support proactive maintenance planning.
- Automated alerting (CloudWatch/Lambda/SNS) to notify critical spikes within seconds, reducing time-to-awareness.

Big Data Analytics on IPEDS Dataset – Hadoop, Hive & Spark

Sep 2024 – Nov 2024

- Analyzed multi-year enrollment data (**2020–2023**) to quantify post-pandemic modality shifts and institutional adoption patterns.
- Consolidated and cleaned **466,157+ records** from schema-variant files using Spark/Hive to enable longitudinal trend analysis.
- Identified a **28% surge** in online enrollment, peaking at **71.7M** (2022) vs **55.8M** (2020).
- Measured adoption relationship (Pearson **r = 0.56**) and identified Public 4-Year institutions as the largest segment (**31.4M** online enrollments).

Credit Risk Analytics (Default Prediction + Strategy)

Mar 2024 – May 2024

- Built a default-risk scoring model on **1.1M+ applications** covering **13 months of historical data**, achieving **AUC 0.946** vs **24.65%** baseline default rate.
- Designed risk segmentation and threshold strategy balancing risk vs growth: conservative tier (~**1.1% default**) and high-yield tier with **~65%** higher projected revenue.
- Engineered **55+ features** across delinquency/balance/risk variables and validated stability across time windows.
- Produced explainability outputs (e.g., SHAP) to translate drivers into audit-ready insights for stakeholders.

EDUCATION

The University of Texas at Dallas

Richardson, TX, USA

Master of Science, Business Analytics and Artificial Intelligence, GPA: 3.8/4.0

Aug 2023 - May 2025

Cohort Dean's Excellence Scholarship

University College of Engineering Narasaraopet (JNTUK)

Narasaraopet, AP, India

Bachelor of Technology, Engineering, GPA: 3.54/4.0

Jun 2018 - May 2022

CERTIFICATIONS

- AWS Certified Cloud Practitioner (CLF-C02)
- Microsoft Certified: Power BI Data Analyst Associate (PL-300)
- Microsoft Certified: Azure AI Fundamentals (AI-900)