

HARISH MAGANTI

Analytics Engineer · Healthcare Data

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SUMMARY

Analytics Engineer with 4+ years building healthcare data platforms across payer and provider settings. Specialize in dbt and Snowflake transformation layers, HIPAA-compliant AWS/Azure pipelines, and turning claims, EMR, and CMS data into trusted analytics for actuarial, clinical, and executive teams. Comfortable across the full lifecycle — ELT, dimensional modeling, data-quality testing, CI/CD, and BI.

TECHNICAL SKILLS

Languages: SQL, Python, JavaScript (Node.js), Java

Analytics Engineering: dbt (Core), dimensional modeling / star schema, incremental models, ELT, data-quality testing, dbt Docs

Data Platforms: Snowflake, Azure SQL, PostgreSQL, DuckDB

Orchestration & Cloud: Apache Airflow, AWS (EC2, IAM, VPC, CodeDeploy), Azure

CI/CD & DevOps: GitHub Actions, Jenkins, Maven, Nexus, Tomcat, Git

BI & Visualization: Power BI, Tableau

Healthcare & Compliance: CMS-HCC risk adjustment, HRRP, HIPAA, value-based care, EMR & claims data

PROFESSIONAL EXPERIENCE

Humana — Data Analyst / Analytics Engineer

Charlotte, NC · Mar 2024 – Present

- Lead the enterprise dbt + Snowflake transformation layer processing claims, member-eligibility, and clinical data for **5M+ Medicare Advantage members**.
- Architected **40+ dbt models** with incremental strategies and partition pruning, cutting daily pipeline runtime from 3 hours to 1.8 hours and saving ~\$75K/year in compute cost.
- Led migration of **30+ legacy SSIS packages** to dbt + Airflow on AWS EC2, reducing maintenance overhead by 40%.
- Partnered with Actuarial and Risk Adjustment teams to standardize **CMS-HCC** calculations, improving risk-score accuracy by 8% and sharpening federal funding forecasts.
- Established dbt tests on **50+ core fields** and documented models in dbt Docs, reducing downstream defect tickets by 55% and onboarding 6 team members in 2 weeks.
- Implemented **CI/CD with GitHub Actions and AWS CodeDeploy** for zero-downtime dbt releases across dev/staging/prod; Airflow failure alerts cut incident resolution to under 20 minutes.
- Built Tableau dashboards (inpatient utilization, readmission rates, provider performance) used weekly by **25+ network managers**; designed HIPAA-compliant AWS architecture (IAM, VPC, encryption).

Apollo Hospitals — Data Analyst

Hyderabad, India · Sep 2020 – Nov 2022

- Designed and maintained end-to-end ETL pipelines ingesting EMR, demographics, and operational data from **25+ source systems** into Azure SQL and Snowflake using Python and Apache Airflow.
- Built layered dbt models (staging → intermediate → marts) for patient-journey analytics, disease-prevalence tracking, and resource utilization across **70+ hospitals**.
- Developed patient risk-stratification models that reduced average length of stay by **6%** through optimized bed allocation and care coordination.
- Built Power BI dashboards (bed occupancy, ICU utilization, surgical volumes, wait times) used daily by **15+ hospital administrators**.
- Implemented dbt data-quality tests on 20+ core entities (reducing anomalies 40%) and unified 25+ sources into a 360° patient view; automated weekly reports in Python, saving 10 hours/week.
- Contributed to Apollo's **Connected Care Command Centre**, applying analytics to real-time patient flow and operational efficiency; mentored 2 junior analysts.

PROJECTS (GITHUB.COM/HARISHMAGANTI-DEV · HARISHMAGANTI.DEV)

CMS Hospital Readmissions Analytics *dbt · SQL · DuckDB*

Modeled the public CMS HRRP dataset into a tested star schema — null-safe type casting for suppressed government values, surrogate keys at facility × measure grain, and 13 automated dbt tests feeding a state-level excess-readmission-ratio mart.

Synthea Health Analytics *dbt · SQL · DuckDB · Python*

End-to-end analytics-engineering pipeline (staging → intermediate → marts) on synthetic patient data; star schema with 20 automated dbt tests and a chronic-disease prevalence mart segmented by age band and gender.

GlobalGoGateway — Full-Stack Visa Platform *Node.js · Express · PostgreSQL*

Solo-built and operate a production platform for US/Canada/UK visa applications: a schema-driven form engine replicating government forms, LLM-powered (Anthropic Claude) document extraction, OTP/2FA authentication, and an approval-queue with audit logging, deployed on DigitalOcean + Cloudflare.

EDUCATION

Master of Science in Business Analytics

Grand Canyon University, Phoenix, AZ

Bachelor of Technology (B.Tech), Electronics & Communication Engineering

VRSEC, Vijayawada, India

CERTIFICATIONS

- **dbt Analytics Engineering Certification** — dbt Labs, 2024
- **AWS Certified DevOps Engineer – Professional** — Amazon Web Services, 2024
- **AWS Certified Solutions Architect – Associate** — Amazon Web Services, 2024