

HARISH MAGANTI

Analytics Engineer · Healthcare Data

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SUMMARY

Analytics Engineer with 4+ years delivering dbt + Snowflake data platforms across payer and provider healthcare. Build tested dimensional models, analytics pipelines, and BI solutions that support actuarial, clinical, and executive decision-making.

TECHNICAL SKILLS

Analytics Engineering: dbt Core, dbt Cloud, SQL, Dimensional Modeling, Star Schema

Data Platforms: Snowflake, DuckDB, PostgreSQL, Azure SQL, Python, Apache Airflow

BI & Analytics: Power BI, Tableau, GA4, Google Tag Manager, Microsoft Clarity

Cloud: AWS, Git, GitHub, CI/CD

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

PROFESSIONAL EXPERIENCE

Analytics Engineer — Humana

Mar 2024 – Present

Service Fund, value-based care · Arlington, VA

- Own the dbt + Snowflake transformation layer (staging → intermediate → marts) across claims, member-eligibility, and clinical data for 5M+ Medicare Advantage members.
- Cut daily pipeline runtime ~40% (3h → 1.8h) by introducing incremental models and partition pruning.
- Partnered with Actuarial to correct misclassified CMS-HCC codes, lifting risk-score accuracy 8% (Actuarial-validated).
- Migrated 30+ legacy SSIS packages to dbt + Airflow and added data-quality tests that catch anomalies before they reach dashboards.
- Designed Tableau dashboards used by network-management teams to monitor utilization trends, provider performance, and operational KPIs.

Data Analyst — Apollo Hospitals

Sep 2020 – Nov 2022

Connected Care Command Centre · Hyderabad, India

- Engineered Python ETL pipelines consolidating EMR, operational, and demographic data from 25+ source tables into Azure SQL and Snowflake, orchestrated and monitored with Airflow.
- Built a length-of-stay tracker and daily bed-occupancy dashboard in Power BI for hospital administrators, supporting a ~6% reduction in average length of stay over 12 months.
- Automated weekly performance reporting in Python, eliminating ~10 hrs/week of manual Excel work and cutting data-reconciliation time from 4h to 1.5h.
- Mentored 2 junior analysts to independence in SQL and dashboard development.

EDUCATION

M.S., Business Analytics — Grand Canyon University, Phoenix, AZ

Jan 2023 – Jul 2024

B.Tech, Electronics & Communication Engineering — V. R. Siddhartha Engineering College, India

2017 – 2021

CERTIFICATIONS

- dbt Analytics Engineering — dbt Labs
- AWS Certified DevOps Engineer – Professional
- AWS Certified Solutions Architect – Associate

OPEN-SOURCE ANALYTICS PROJECTS

CMS Hospital Readmissions Analytics — dbt · SQL · DuckDB

github.com/Harishmaganti2/cms-readmissions-analytics

- Modeled the CMS HRRP dataset (~3,000 hospitals across six quality measures) into a layered dbt project (staging → intermediate → marts).
- Designed a dimensional star schema with surrogate keys at facility × measure grain and null-safe casting for suppressed government values.
- Implemented 13 automated dbt tests (unique, not_null, relationships, accepted_values) to guarantee data quality.
- Delivered a state-level excess-readmission-ratio mart for downstream BI reporting.

Synthea Health Analytics — dbt · SQL · DuckDB · Python

github.com/Harishmaganti2/synthea-health-analytics

- Modeled a multi-entity population-health dataset (patient, encounter, condition) into conformed dimensions and a chronic-disease prevalence mart segmented by age band and gender.
- Published a fully documented dbt project with dbt Docs and model lineage, reproducible end to end from raw CSVs with no PHI.
- Validated with 20 dbt tests across sources and models to keep the pipeline trustworthy as the dataset regenerates.

PRODUCTION ANALYTICS PLATFORMS

Mainaka — Analytics Platform Engineer · India

mainaka.com ↗

GA4 · Google Tag Manager · Microsoft Clarity · event tracking · funnel analysis · SQL · React

- Instrumented a production React application with GA4, Google Tag Manager, and Microsoft Clarity, designing an event taxonomy spanning registration, onboarding, mock interviews, engagement, and completion funnels.
- Resolved a production analytics pipeline defect, restoring accurate KPI reporting across executive dashboards.
- Built SQL-backed operational dashboards over event-level data (funnel conversion, completion, engagement) and modeled raw application events into the KPIs used for product decisions.

GlobalGoGateway — Analytics Platform Developer · India

globalgogateway.com ↗

PostgreSQL · SQL · analytics modeling · event tracking · KPI dashboards · Chart.js

- Designed a normalized PostgreSQL operational database supporting Customer360, Case360, workflow events, tasks, documents, services, and payments.
- Built event-driven timeline tables enabling lifecycle analytics, case-aging metrics, and consultant-productivity reporting.
- Developed operational KPI dashboards visualizing application throughput, consultant productivity, approval rates, workflow bottlenecks, and customer lifecycle metrics.
- Curated a historical operational dataset of ~100 customer cases across roughly two years — payments, outcomes, timelines, and interview dates — enabling longitudinal analysis of workflow efficiency, approval outcomes, and customer lifecycle.

LINKS

Portfolio: harishmaganti.dev GitHub: github.com/Harishmaganti2