

# Vignesh Raveendran

## Analytics Engineer

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## PROFILE

Analytics Engineer with **2+ years of experience** as a Consultant at o9 Solutions, delivering **scalable data models, cloud-based pipelines**, and **Modern Data Stack** business intelligence solutions. Strong expertise in **SQL, dbt, Snowflake, BigQuery, and Medallion architecture** to transform raw data into **analytics-ready datasets**. Experienced in **advanced DAX, dimensional modeling**, and building **executive dashboards** that drive **operational and revenue decisions**.

## SKILLS

**SQL & Databases:** Snowflake, BigQuery, SQL Server, MySQL, MongoDB, CTEs, Window Functions, Query Optimization

**Data Engineering & Modeling:** dbt, Databricks, Spark, SSIS, Airflow, AWS S3, Delta Lake, Star Schema, Medallion Architecture, SCD Type 2

**Programming:** Python, Git (CI/CD), Docker

**BI & Visualization:** Power BI (DAX, Power Query, Dataflows), Tableau, Advanced Excel

**Domain Knowledge:** Supply Chain Management, Integrated Business Planning (IBP), Demand & Supply Planning

## PROFESSIONAL EXPERIENCE

### Consultant (Business Operations Specialist) - o9 Solutions, Bengaluru, India | June 2021 – February 2023

- Engineered **scalable ETL pipelines** using SQL, Python, Spark, Hive, and Airflow to improve **data reliability** and processing performance.
- Optimized supply chain planning configurations, reducing forecast runtime by **25%**, shortening planning cycles by **30%**, and improving data accuracy by **20%**.
- Developed **executive KPI dashboards** to monitor commercial performance and support revenue planning decisions.
- Led end-to-end implementation of o9 DigiBrain planning modules, improving **planning accuracy by 10%** through shelf-life optimization for a pharmaceutical client.
- Led **data modeling** and solution optimization initiatives for enterprise supply planning systems, while **mentoring junior consultants** to strengthen analytics and **SCM** implementation capabilities.

### Freelance Data Analyst - Healthcare Clinic, Remote | November 2023 – September 2024

- Analyzed patient and billing datasets to improve reporting **accuracy** and **revenue visibility**.
- Developed Excel-based dashboards to track **appointment trends**, utilization, and **monthly financial performance**.
- Automated recurring reports and cleansed legacy datasets to enhance **operational efficiency**.

## PROJECTS

### Airbnb Cloud Data Pipeline [GitHub] - Snowflake | dbt | AWS S3 | SQL | Python

- Designed an **end-to-end Medallion architecture pipeline** ingesting **S3 data into Snowflake** for **analytics-ready transformation**.
- Built **modular dbt models** with **incremental materializations, SCD Type 2 snapshots, data quality tests**, and **Jinja macros** to create **analytics marts and OBT structures**.
- Implemented **performance optimization** and **partitioning** strategies to improve **warehouse query efficiency** and reduce transformation runtime.

### Global Energy Analytics Platform [GitHub] - AWS S3 | Snowflake | SQL | Tableau

- Implemented **cloud ingestion pipelines** using **IAM roles** and **COPY INTO** for **large-scale data loading**.
- Modeled **demographic-based transformations** and built **interactive Tableau dashboards** to analyze renewable energy consumption trends.

### Housing Market BI Dashboard [GitHub] - BigQuery | Power BI | DAX

- Integrated **BigQuery with Power BI** to develop **dimensional models** and interactive dashboards analyzing macroeconomic and seasonal trends.
- Engineered **advanced DAX measures** (time intelligence, MEDIANX) for **YoY regional price analysis**.

### Loan Default Risk Dashboard [GitHub] - Power BI | Dataflows | Incremental Refresh

- Processed **250,000+** financial records using **Dataflows and incremental refresh architecture**.
- Developed **advanced DAX calculations (YOY, YTD)** to identify **high-risk default segments**.

### Sales & Product Analytics Model [GitHub] - Power BI | Star Schema

- Designed a **Star Schema dimensional model** and automated dashboard replacing manual reporting.
- Built dynamic **DAX measures using USERELATIONSHIP** to uncover **seasonal revenue trends**.

## EDUCATION

MBA - Artificial Intelligence & Data Science | SRM Institute of Science & Technology, Chennai | 2025 – 2026

B.E. - Electronics & Communication Engineering | PSG College of Technology, Coimbatore | 2017 – 2021