

AARON GUNASINGH

Data Analyst • BI, Experimentation & Applied LLM Analytics

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SUMMARY

Data analyst with 3 years across enterprise BI and applied LLM analytics — defining KPIs, building Tableau and Looker dashboards, running experiments, and turning unstructured operational text into queryable data for manufacturing and hardware clients. Comfortable owning the full path from raw source tables to the recommendation a stakeholder acts on, and building the tooling when it doesn't exist.

EXPERIENCE

Axion Ray

October 2025 – Present

Data Analyst – AI & Advanced Analytics • AI quality-intelligence software for manufacturers

Bengaluru, India

- Analysed semiconductor field-failure data for Nexperia to trace defective units back to the originating wafer; the client used the analysis to locate and remediate the faulty wafer source.
- Analysed 100K field-service records for Diebold Nixdorf to isolate repeat service calls and identify the drivers behind them, using LLM tagging over technician free text to surface preventive root causes and match new failures against resolved historical cases.
- Structured unstructured service text for QSC into queryable failure, root-cause, fix and sentiment fields, validated through sampled human review backed by an LLM-as-judge pass before client delivery.
- Built and shipped dashboards in Axion BI integrating AI-generated insight alongside structured metrics for client-facing quality reporting.
- Built and piloted an internal Metric QA tool (Python, FastAPI, DuckDB, React) that isolates whether a broken metric originates in SQL logic, source data, or the upstream pipeline — cutting metric validation from 3 hours to 30 minutes.
- Optimised SQL queries and backend data models to reduce latency across analytics systems, and automated recurring reporting and data preparation in Python.
- Built internal Claude agent skills used by the team for meeting-minutes extraction into Slack, root-cause and hypothesis generation, and dashboard recommendations.

Factspan Analytics

September 2023 – April 2025

Analyst

Bengaluru, India

- Designed and ran A/B tests in Python and SQL across the customer funnel, delivering a 20% lift in conversions.
- Defined and tracked 15+ strategic KPIs feeding executive reporting, improving visibility into delivery and vendor performance.
- Built Tableau dashboards unifying data from 8+ enterprise systems (JIRA, GitLab, GCP, Splunk, Dynatrace), using LOD expressions, calculated fields and custom aggregations for advanced analysis.
- Improved dashboard load performance by 40% through query optimisation and efficient data modelling.
- Built SQL reconciliation checks against BigQuery source tables to catch discrepancies before they reached executive reporting.
- Built Looker dashboards in LookML driving vendor performance insight, and shifted recurring requests to self-service, removing roughly 10 analyst hours per week.

INDEPENDENT PROJECTS

- MediScribe (2025)** — Medical AI scribe converting consultation audio into structured clinical notes: self-hosted Whisper → LangChain → Gemini Pro, on a Flutter client over a Dockerised FastAPI backend on Cloud Run with Firestore. Designed the HIPAA deployment path (Azure OpenAI under a BAA, encrypted storage, audit logging, RBAC).
- Artos and ChordLoft** — Two applications built and shipped to production outside work: a cross-platform devotional app (Expo / React Native / TypeScript / Firebase, iOS + Android + web) and an Android worship-setlist app (Kotlin, Jetpack Compose, Room) with a pure-Kotlin layout engine driving PDF export, editor preview and live performance from one set of draw commands.

TECHNICAL SKILLS

- Programming & Query:** SQL (window functions, CTEs, query optimisation), Python (Pandas, scikit-learn), TypeScript, Kotlin
- BI & Visualisation:** Tableau (LOD expressions, calculated fields, custom aggregations), Power BI, Looker / LookML, Advanced Excel
- Experimentation:** A/B test design, hypothesis testing, SQL-based test analysis
- Data & Cloud:** BigQuery, DuckDB, Apache Airflow, FastAPI, SQLGlott, GCP, Microsoft Azure, AWS, Docker
- Applied LLM:** OpenAI Responses API & Structured Outputs, Claude, Gemini, LangChain, prompt versioning & evaluation, LLM-as-judge, human-in-the-loop validation, unstructured-text tagging
- Certifications:** GCP Professional Data Engineer, Tableau Desktop Specialist, Fabric Analytics Engineer Associate, Azure AI Fundamentals, Astronomer Apache Airflow Fundamentals

EDUCATION

M.Tech, Automotive Hybrid Systems Engineering — SRM Institute of Science and Technology

2023

B.E., Mechanical Engineering — St. Joseph's Institute of Technology

2021