

# SOMESH ZANWAR

Product & Data Analyst • SQL • A/B Experimentation • KPI & Funnel Analytics • AI/Agent Governance

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## PROFESSIONAL SUMMARY

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Data & Product Analyst with 1+ year of experience using SQL, Python, and BI tools to build reporting workflows, analyze operational data, and improve data quality. Built governance-focused analytics projects using PostgreSQL, dbt, Power BI, and Microsoft Agent Governance Toolkit. M.S. Data Science candidate at UT Arlington with three merged AGT contributions across adopter documentation, tutorial verification, and a data-quality-aware governance example. Authorized to work in the U.S. on F-1 OPT; CPT available.

## TECHNICAL SKILLS

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**Analytics & Querying:** SQL (Window Functions, CTEs, Query Optimization, Joins), Python (Pandas, NumPy), BigQuery

**Product & Business Analytics:** KPI Development, Funnel Analysis, Cohort Analysis, Retention Analysis, A/B Testing, Experiment Design

**Visualization & BI:** Tableau, Power BI, Streamlit, Plotly: Dashboard Design, Stakeholder Reporting, Data Storytelling

**Data Engineering:** ETL Pipelines, dbt, Data Modeling (Star/Snowflake Schema), PostgreSQL, MySQL, Data Quality Monitoring, Agent Governance (Microsoft AGT)

**Machine Learning (Applied):** Scikit-learn, XGBoost, Feature Engineering: supporting product experimentation & prediction workflows

**Cloud & Tools:** Google Cloud Platform, Docker, Git, Jira, Salesforce

## WORK EXPERIENCE

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**Junior Data Analyst — IVS Software Solutions Pune, India**

**Jun 2023 – Sep 2024**

- Analyzed 80K–150K operational records per cycle using SQL and Python to surface KPI trends, detect anomalies, and power stakeholder reporting, directly reducing decision latency for 3 internal business teams.
- Conducted structured exploratory data analysis (EDA) that uncovered systematic data quality gaps, improving downstream reporting accuracy by 30% and establishing recurring data validation checkpoints.
- Re-engineered SQL pipelines with optimized join logic, window functions, and incremental loads, cutting data preparation time by 40% and accelerating dashboard refresh cycles from daily to near-real-time.
- Built reusable, analysis-ready datasets supporting weekly and monthly reporting workflows, eliminating 4–6 hours of manual data wrangling per stakeholder cycle.

## PROJECTS

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**Data Quality-Aware Agent Governance | Python, Microsoft AGT, PostgreSQL, dbt**

- Built a two-layer governance prototype using Microsoft AGT that combines agent authorization with dataset trust checks, blocking actions when target data fails freshness or quality thresholds.
- Created audit-ready decision logic showing whether an action was blocked by agent policy or data quality checks.

**AI Data Governance & Quality Monitoring System | PostgreSQL, Python, dbt, Power BI**

- Engineered a governance layer monitoring 150K+ daily events across ingestion pipelines, enforcing schema validation and systematized cross-source reconciliation for 90% of data sources.
- Deployed real-time anomaly detection cutting incident response time by 25%; built AI-powered Power BI dashboard translating data failures into actionable explanations for non-technical stakeholders.

**Decision Intelligence Experimentation Platform | PostgreSQL, Python, Streamlit**

- Architected an end-to-end A/B testing platform simulating 50K+ users and 280K+ events; designed hypothesis testing pipelines (z-test, t-test, Mann-Whitney) surfacing a conversion-vs-revenue trade-off that informed a go/no-go product launch decision.
- Designed dbt-powered metrics layer and Streamlit self-serve dashboard, reducing analyst involvement in experiment readouts by ~60%.

**Metric Decomposition Engine | PostgreSQL, Python, Pandas, Streamlit**

- Developed an automated root-cause analysis system decomposing event-based metrics across dimensions on 1.3M+ GitHub Archive events, ranking each segment's contribution to total metric movement.
- Generated plain-English incident reports via Jinja2 and an interactive Streamlit dashboard, turning multi-hour manual metric investigations into a self-serve workflow running in seconds.

## EDUCATION

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**Masters in Data Science**

**Jan 2025 – Dec 2026**

The University of Texas at Arlington, TX | **GPA: 3.67**

**Bachelor of Engineering in Artificial Intelligence and Machine Learning**

**Aug 2020 – May 2024**

Savitribai Phule Pune University, India | **GPA: 8.2**

## OPEN-SOURCE CONTRIBUTIONS

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**Microsoft Agent Governance Toolkit | Open Source Contributor**

- Contributed four merged PRs to Microsoft AGT, including adopter documentation, tutorial verification fixes, a generic data-quality-aware governance example, and a dbt-backed data quality evidence adapter.
- Implemented an example-level governance pattern showing how AGT policy checks can be combined with dataset trust signals to block agent actions when target data is stale, failing validation, or unfit for use.