Nakshatra Agarwal

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SUMMARY

Senior data analyst with 5+ years of experience transforming large, complex datasets into business decisions across AML compliance, product analytics, healthcare, and financial forecasting. Proven track record of building self-serve dashboards, defining KPI frameworks, conducting A/B tests, and delivering executive-ready insights. Expert in SQL, Python, Power BI, and Tableau, with experience using AI Tools (Claude, OpenAI API, Copilot) to accelerate analysis and communicate findings to technical and non-technical stakeholders.

SKILLS

Analytics: SQL, Python (Pandas, NumPy), R, SAS, Statistical modeling, Forecasting, A/B testing

BI & Visualization: Power BI (Power Query), Tableau, Looker, DAX, Dashboard design, KPI frameworks, Executive reporting, Microsoft Fabric

Data & Cloud: Snowflake, AWS (S3, EC2, Lambda), Databricks, Data quality, Documentation, DBT, Data governance, Git/version control

AI & Tools: Claude Code, OpenAI API, GitHub Copilot, Gemini, Excel (VBA/Macros), Agile/Scrum

PROFESSIONAL EXPERIENCE

Senior Data Analyst | Protiviti | Philadelphia, PA

Oct 2025 - Present

- Built **AML compliance Analytics** on **Snowflake and AWS**, surfacing behavioral anomalies and risk patterns that directly supported two SAR filings.
- Built **DBT models on Snowflake** for AML features and published 4+ interactive Tableau dashboards with row-level security for regulators and leadership.
- Conducted **root cause analysis** of AML anomalies using **AI-assisted text analytics**, improving compliance reporting and operational workflows.
- Implemented **Generative AI tools (Claude, ChatGPT, Copilot)** for SQL generation, data exploration, and documentation, cutting documentation time by 35%.
- Migrated Excel-based reporting to **automated SQL reporting workflows**, improving data accuracy and enabling self-service access for 3 non-technical teams.

Data Analyst II, Analytics & Business Intelligence | E-Solutions | San Francisco, CA

Jul 2024 - Sep 2025

- Delivered **healthcare product analytics** on **Snowflake**, surfacing growth insights that directly influenced a **$1.2M** budget reallocation.
- Built **KPI frameworks and A/B testing** infrastructure from scratch, improving conversion outcomes by 18% across key product and marketing growth initiatives.
- Owned monthly reporting cycles end-to-end, SQL querying, data modeling, dashboard delivery, and VP-level stakeholder presentations on tight deadlines.
- Standardized metric definitions and data documentation across 5+ analytics consumers, eliminating reporting discrepancies, improving cross-team trust in data.

Data Analyst I, Analytics & Business Intelligence | E-Solutions | San Francisco, CA

Jun 2023 - Jun 2024

- Developed **sales and operational forecasting models** using Python and SQL that improved forecast accuracy by 15% and reduced excess costs by $175K annually.
- Built self-serve **Tableau and Power BI dashboards** for Finance, Marketing, and Product teams, shortening executive decision cycles by 32% quarter over quarter.
- **Automated SQL reporting workflows** and data validation checks, reducing manual turnaround time by 20% and improving downstream data consistency.
- Partnered with cross-functional teams to define reporting requirements, document data definitions, and deliver ad hoc analyses that supported strategic planning decisions.

Data Analyst | Spectrum WebApps | Gurgaon, India

Jan 2021 - Aug 2021

- Applied **funnel and behavioral analysis** to identify churn drivers across user cohorts, delivering targeted data recommendations that reduced churn by 27%.
- Built standardized reporting frameworks and self-serve dashboards that increased stakeholder analytical self-sufficiency by 30% across product teams.
- Collaborated with managers to **define success metrics**, monitor feature performance post-launch, and deliver actionable insights to cross-functional leadership.

Data Analyst | ZS Associates | New Delhi, India

Oct 2019 - Dec 2020

- Built **SQL queries and BI dashboards** for **healthcare and life sciences clients**, supporting clinical analytics and payer workflows with 93% accuracy.
- Developed **Excel VBA and MySQL** automation tools and time-series forecasting models for senior consulting and finance stakeholders worldwide.
- Validated and reconciled datasets to ensure accuracy in recurring **client-facing analytics deliverables**, supporting planning discussions across 15+ accounts.
- Coordinated with senior consulting stakeholders to deliver data-driven business recommendations, supporting annual planning cycles across 15+ client markets.

PROJECTS

- **Credit Card Transaction Pipeline** | **SQL | Snowflake | dbt** - Built an end-to-end analytics engineering pipeline with distributed data cleaning, warehouse modeling, and automated quality validation. 49K rows processed, 13/13 data quality checks passed.
- **Retail Demand Forecasting** | **R | ARIMA | ETS | Hypothesis Testing** - Compared time-series forecasting models across 5 retail stores and quantified promotional impact using statistical significance testing. Achieved 76.6% avg accuracy with +593 units/day promo lift.
- **AWS Inventory ETL Pipeline** | **Lambda | DynamoDB | S3 | SNS** - Designed a serverless event-driven pipeline that ingests, cleans, and monitors inventory data, automatically triggering low-stock alerts. 785/808 rows cleaned, 132 alerts triggered, fully tested with moto at zero AWS cost.

EDUCATION

Master of Science in Machine Learning Engineering | Drexel University, Philadelphia, PA | 2023

Bachelor of Technology in Computer Science & Engineering | AKTU, India | 2019