SNEHA NAGABHAIRAVA

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PROFESSIONAL SUMMARY

Strategic data engineering professional with over two decades of experience scaling complex platforms and modernizing enterprise data ecosystems, including deploying data solutions at customer utility sites. Proven expertise in Snowflake, dbt, ETL/ELT, SQL optimization, data architecture, and cloud data engineering, alongside hands-on experience developing machine learning, RAG, and agentic AI solutions across AWS and Google Cloud. Focused on scalable pipelines, reliable data transformations, and technical execution.

TECHNICAL EXPERTISE

Modern Data Stack: AWS (S3, Athena, Glue, Kinesis, Firehose, SageMaker, Bedrock), Google Cloud Platform (Vertex AI, BigQuery, Google Cloud Build), arquet, Snowflake, dbt, Databricks, Apache Spark, Alteryx

Languages: SQL, PL/SQL, Python, TypeScript, Java (Sun Certified)

Databases: Oracle (Certified Professional), Postgres, SQL Server, Sybase, NoSQL, ChromaDB, Redis, Star/Snowflake Design

Tools & Platforms: Streamlit, Docker, Apache Airflow, CI/CD Pipelines, FastAPI, React, Informatica, Datameer, DBeaver, Toad, GitHub, Jira, Google Workspace, Node.js, ReAct, Microsoft 365

AI & Machine Learning: Large Language Models (LLMs), Machine Learning, MLOps, LangChain, Agentic AI, Deep Learning, Data Science

BI & Visualization: Tableau (Certified), Power BI, SAP Business Objects

PROFESSIONAL EXPERIENCE

Applied AI and Machine Learning (Independent) June 2025 – present

- Built FinanceBuddy, a personal-finance lakehouse with synthetic ledgers, dbt on Athena, ML for subscriptions/habits/fraud, and a Streamlit UI on S3 gold. Optional Kinesis streaming and a Bedrock Haiku coach grounded in marts.
- Built a prototype RAG agent over public Mecklenburg County tax and sales records (Python, LangGraph, Chroma, Streamlit) that routes each question to SQL or document retrieval. Added a Redis caching layer; in local testing, cached repeat queries returned in ~43 ms versus ~8 s uncached (p95).
- Built CivicPocket, a public-assistance finder for Mecklenburg County, with Next.js, FastAPI, Vertex AI, and BigQuery. Common personal details are stripped before a question reaches the model.
- Built a youth mental health risk model on the 2024 National Survey of Children's Health with XGBoost, SHAP, and MLflow. The explainer runs on Streamlit.

THOMSON REUTERS, Eagan, MN

Lead Software Engineer (Data Engineering & Analytics) (January 2012 – May 2025)

FindLaw – Performance Analytics Group (2015 – May 2025)

Internet Brands acquired FindLaw in Dec 2024

- Led cloud data warehouse modernization to Snowflake, designing scalable ELT pipelines to ingest input datasets staged in AWS S3 and orchestrating schedule-driven dbt model runs using Apache Airflow DAGs.
- Championed and implemented dbt from scratch to eliminate redundant, fragmented SQL across 8 analysts, centralizing transformation logic, establishing Git version control, and reducing dashboard development time.
- Decreased data inconsistencies by 35% by creating standardized, certified Tableau data sources used by 20+ analysts company-wide.
- Led technology transition following Internet Brands' acquisition of FindLaw from Thomson Reuters by enabling seamless customer data porting and updating 15+ downstream processes to ensure smooth operations after SAP account numbering system restructuring.
- Architected social media budget reporting solution for Facebook products and article forecast reporting system for workload balancing.
- Eliminated 15+ hours of weekly manual reporting by designing PPC Budget and Performance Dashboards that resolved complex budgeting issues; received company-wide "Star Performer" award.
- Created Budget Estimator tool that uses logistic regression and random forest classifiers to categorize Google Ads into the correct practice areas, reducing manual effort.
- Prototyped AWS MLOps workflows leveraging AWS SageMaker for model deployment pipelines.

FindLaw – Data Services Group (2012 – 2015)

- Lead the BPM fulfillment analytics team and increased offshore team productivity by 28% through structured weekly leadership meetings and clear implementation guidance.

- Reduced query execution time through SQL optimization and data model improvements.
- Performed the data modeling, data mapping, and analysis for several key reporting projects such as Oracle BPM reporting, Vendor API (crowdsourcing of content), Call Quality, Scheduling of Calls, Product Performance etc.
- Integrated FindLaw's customer data with Thomson Reuters Master Data Management System.
- Implemented several Business Objects Universes and developed BO reports.
- Led technical book discussions on advanced analytics. Created training materials for the business and developers.

ECOLOGIC ANALYTICS, Bloomington, MN

Senior Analyst / Oracle Software Engineer (January 2007 – January 2012)

- Accelerated data processing by 70% by rewriting core processes with table partitioning and resolving production locking issues.
- Deployed and configured MDMS (Meter Data Management System) at customer utility sites, including Pacific Gas and Electric, Austin Energy, and Indianapolis Power and Light, through on-site client visits and requirements gathering; supported RFP responses. Automated 90% of data migration processes by developing robust ETL frameworks for the Ecologic MDMS platform.
- Enhanced data security protocols for utility customers by designing and implementing comprehensive security architecture including Oracle VPD implementation.

WOLTERS KLUWER FINANCIAL SERVICES, Minneapolis, MN

Database Administrator (January 2004 – January 2007)

- IRAMC Database management. Build deployments. Optimizing SQL Queries. Migration.

INFRASOFT TECHNOLOGIES, Mumbai, India

Software Programmer (August 2001 – November 2003)

- Reports for Coutts Bank. Web frameworks. CMM Level 5 certification. Built database components.

CERTIFICATIONS

- Tableau Certified Developer
- Oracle Database Administrator Certified Professional
- Sun Certified Java Programmer

EDUCATION

Bachelor of Science in Computer Science, Mumbai University, India – Graduated 2001