

RUTVIK BHAMWARI

Customer Engineer, Data Analytics | Cloud Architecture | Enterprise Consulting
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PROFESSIONAL SUMMARY

Data Analytics Engineer with 8+ years of customer-facing experience architecting and delivering cloud-based data intelligence solutions across enterprise healthcare and pharma environments. Deep expertise in solution architecture, data warehousing, ETL/ELT pipelines, data governance, and data lifecycle management. Proven ability to conduct full technical discovery, translate complex business requirements into scalable cloud architectures, and communicate value propositions to both technical and executive stakeholders. Track record of \$5M+ in measurable business impact through data platform modernization, automation, and analytics consulting engagements.

TECHNICAL SKILLS

Cloud Platforms: Microsoft Azure, AWS (Athena, SageMaker, S3, QuickSight), Google Cloud Platform (BigQuery, Dataflow concepts), Cloud-Native Architecture

Data Engineering: ETL/ELT Pipelines, Batch & Real-Time/Streaming Processing, Data Warehousing, Data Lakes, Data Transformation, Schema Design, Query Optimization

Analytics & BI: Microsoft Fabric, Power BI, Tableau, DAX, Power Query, Semantic Modeling, Data Visualization

Programming & Databases: Python, SQL, T-SQL, Oracle PL/SQL, R, NoSQL concepts, Distributed Systems

Architecture & Consulting: Solution Architecture Design, Technical Discovery, Proof of Concept Development, Stakeholder Presentations, RFI/RFP Responses

Governance & Quality: Data Governance, Data Lineage, Metadata Management, Data Migration, Compliance Frameworks

AI & Emerging Tech: Generative AI, Claude API, Agentic Workflows, Prompt Engineering, A/B Experimentation

Certifications: Power BI Data Analyst Associate | Google GenAI for Healthcare | EPIC Cogito & Caboodle | Tableau Analyst

PROFESSIONAL EXPERIENCE

Northwell Health | Long Island, NY *May 2021 – Present*

Analytics Engineer / Senior BI Consultant (Promoted) | *Jun 2024 – Present*

- Conducted full technical discovery with clinical and operational stakeholders across 12+ hospital units to gather business and technical requirements, architecting cloud-native data solutions on Microsoft Azure that delivered insights from 15M+ data points.
- Designed and presented end-to-end solution architectures for enterprise data platforms, translating ambiguous business needs into scalable, distributed system designs — driving \$5M+ in cost savings.
- Led proof-of-concept engagements for new analytics capabilities, demonstrating platform value to leadership through whiteboard sessions, slide presentations, and live product demonstrations.
- Architected the enterprise Care Coordination data model as the organization-wide Source of Truth, applying schema design and query optimization principles across 500+ GB production data marts serving 20+ clinical departments.
- Built data governance and compliance frameworks including automated Data Health Scorecards, enforcing data quality, lineage tracking, and nationwide policy standards across the full data lifecycle.
- Developed a metadata-driven data lineage visualization platform, enabling technical teams to identify and resolve data transformation and pipeline friction points across distributed systems.
- Partnered directly with engineering and product teams to prioritize platform enhancements impacting data adoption, acting as the technical subject matter expert and internal advocate for analytics infrastructure.

Clinical Data Analyst | *May 2021 – Jun 2024*

- Engineered batch and real-time ETL/ELT pipelines on Microsoft Azure to feed Power BI dashboards, ensuring high data quality and integrity for clinical reporting across enterprise data warehouses.
- Automated legacy data transformation workflows using Python, reducing batch processing time by 95% (from 1.5 hours to under 1 minute) through pipeline re-architecture.
- Led data migration of legacy assets into a unified cloud warehouse environment, standardizing KPI definitions across 20+ departments and reducing time-to-insight for Finance and Operations by 40%.
- Conducted infrastructure optimization analysis to identify and retire redundant data pipelines, reducing warehouse compute costs by 20% while improving data availability and query performance.

Merck Pharmaceutical (via Accenture) | Pune, India *Jun 2015 – Jul 2018*

Senior Data Analyst – Analytics Consulting

- Served in a customer-facing consulting role, conducting technical discovery and translating complex business requirements into BI and data architecture solutions for a global pharmaceutical enterprise.
- Designed and delivered solution briefings and technical presentations to senior stakeholders, articulating the value proposition of data platform investments across cross-functional teams.
- Optimized ETL pipelines, schema design, and SQL query performance using stored procedures and triggers, improving pipeline job success rates by 20% and reducing manual data processing effort by 15%.
- Led an 8-member analytics team across 20+ enterprise projects, managing technical requirements, task allocation, and delivery timelines using Agile and Waterfall SDLC methodologies.
- Built automated SQL data validation frameworks that detected anomalies before reaching executive reporting layers, significantly improving data trust and operational decision-making accuracy.
- Conducted data lifecycle analysis on customer records to identify transformation bottlenecks, delivering a 15% increase in data capture efficiency across distributed data sources.

mLogica Inc. | Chicago, IL *Jan 2020 – May 2020*

Business Intelligence Analyst

- Translated complex business requirements into cloud-based BI solutions using SQL and AWS QuickSight; deployed ML regression models on AWS SageMaker for trend forecasting, improving decision-making accuracy by 30%.

PROJECTS -- APPLIED CLOUD & AI ARCHITECTURE

AI Data Assistant

Python | Streamlit | Claude API

- Built a natural language to SQL engine with privacy-first architecture — only schema metadata sent to the LLM, never raw data — enabling secure, conversational database querying at scale.
- Implemented CSV analysis with persistent conversation memory and AI-generated ETL log narration, reducing time-to-insight for non-technical stakeholders.

AI BI Dashboard

Python | Plotly | Streamlit | Claude API

- Automated KPI calculation and anomaly detection on any uploaded CSV, surfacing specific outliers with exact dates and percentage deviations via AI-generated executive narratives.
- Built interactive Plotly visualizations with Claude-powered commentary, translating raw data into board-ready insights without manual analysis.

Autonomous Data Agent

React | Node.js | Claude API | data-agent-eight.vercel.app

- Engineered a three-level autonomous investigation hierarchy (Load Integrity, Data Validity, Business Anomalies) with baseline comparison and structured alert classification (CRITICAL / WARNING / INFO).

AI Movement Brand Kit

React | Node.js | Claude API | movementbrandkit.vercel.app

- AI-powered brand identity generator: input a movement philosophy, receive a complete brand system including colour palette, typography, tone of voice, and content strategy.

Portfolio Website

Next.js | Tailwind CSS | Vercel | rutvikbhamwari.com

- Personal portfolio featuring a dual 9-5/5-9 identity toggle with smooth phase-based transitions, showcasing both professional and creative work.

EDUCATION

Illinois Institute of Technology | Chicago, IL 2018 – 2020

Master of Science, Information Technology Management (MIS)

Relevant Coursework: Cloud Computing, Data Warehousing, Business Intelligence, Machine Learning, Data Analytics, Distributed Systems

Narsee Monjee Institute of Management Studies (NMIMS) | Mumbai, India 2011 – 2015

Bachelor of Technology, Electronics & Telecommunications