

Sukrit Tripathi

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Summary

Data Scientist with 5+ years of experience delivering end-to-end analytics solutions and AI systems that drive business impact. Proven track record of building production ML models, automating data pipelines, and leading cross-functional teams. Currently advancing expertise in LLM applications and agentic AI systems while pursuing MS in Analytics at NEU.

Professional EXPERIENCE

Micron Technology

Boise, ID

Data Science Intern:

July 2025 – Dec 2025

- **GenAI application:** Built summarization application serving 18+ users across MT group with expansion planned, enabling automated processing of Excel, CSV, and JSON files with parallel processing and chunking capabilities through multi-model orchestration (OpenAI GPT-4, Anthropic Claude, Google Gemini)
- **AI Agent Deployment:** Deployed 4 AI agents using Google AI SDK and Snowflake Cortex: accuracy-checker for instant result validation, model evaluator for simultaneous multi-metric testing, prompt optimization agent for automated iteration, and semantic Q&A agent for natural language querying
- **Architecture Design:** Engineered end-to-end agent architecture with LLM prompt chains, retrieval logic, and scoring pipelines, exposing functionality through Python APIs and Streamlit UIs with persistent GCS storage
- **LLM Evaluation & DOE:** Developed automated evaluation framework, conducting DOE experiments for hyperparameter tuning that delivered significant performance improvements and informed model selection criteria across multiple language models
- **Vertex AI Prompt Management Pilot:** Deployed Vertex AI prompt management solution in production GCP environment, implementing versioned storage for 12 prompts across multiple model configurations
- **Generated GenAI summaries:** Automated GenAI summaries for 1 million+ forecasted account receivables records (and growing), aggregating financial data on Snowflake using SQL and deploying through Snowflake Cortex agent
- **Application Maintenance & Security:** Migrated Projects authentication from OAuth to Graph API, implemented Secret Manager for credential management, and integrated FactSet API for automated earnings scheduling

ZS Associates

Pune, India

Business Technology Associate Consultant:

Oct 2019 – Aug 2024

- **End-to-End Analytics:** Delivered 15+ end-to-end analytics solutions for Fortune 500 pharmaceutical clients, managing \$2M+ project portfolios and consistently meeting delivery timelines
- **ETL Pipeline Architecture:** Architected scalable ETL pipelines processing 10GB+ daily data volumes across Snowflake, AWS Redshift, and Hadoop ecosystems, reducing data processing time by 60%
- **Data Architecture:** Designed 3-layer data model (physical, logical, dimension) for 150+ disparate tables, reducing final presentation layer to 13 optimized tables with complete STTM documentation
- **ML Forecasting Models:** Built sales forecasting models using XGBoost and Random Forest that improved quota-setting accuracy by 22% and optimized \$15M+ annual incentive compensation programs
- **MDM Automation:** Automated 80% of master data management pipeline with end-to-end error handling (landing, DQM validation, staging, Reltio delivery), reducing execution time from 26 hours to 9 hours
- **NL2SQL Development:** Developed natural language to SQL (NL2SQL) chatbot templates as part of a Generative AI project, eliminating 60% of ad-hoc SQL requests to data teams
- **Data Quality Automation:** Implemented automated data quality frameworks with anomaly detection and schema validation, reducing manual QA efforts by 40% and improving data reliability to 99.5%
- **BI Dashboards:** Created executive dashboards in Tableau and Python to surface insights for both technical teams and executive stakeholders
- **Technical Leadership:** Led team of 8 consultants in adopting CI/CD best practices and Agile methodologies, resulting in 30% faster project delivery cycles driving adoption of best practices in CI/CD (Jenkins), Agile project delivery (JIRA)

Education

Northeastern University

Boston, MA

Master of Professional Studies in Analytics; GPA: 3.9

Sep 2024 - June 2026

- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Predictive Analytics, Big Data
- **Capstone Project:** Built HubSpot-integrated analytics dashboard for RevOps firm, identifying marketing gaps and optimizing sales workload distribution with LightGBM retention model projecting 15% improvement in client retention

AKTU University

Ghaziabad, U.P, India

Bachelor of Technology in Electronics and Communications Engineering

Aug 2015 – June 2019

- **Capstone Project:** Built IoT-based smart garbage monitoring system for city municipal operations, implementing automated alerts for bin capacity and weight thresholds to optimize pickup truck routing and reduce random collection schedules.

Technical Skills

- **Programming:** Python, SQL, R, C, HTML, CSS
- **Cloud & Data:** Snowflake Cortex, AWS Redshift, GCS, Vertex AI, DBT, Airflow, Fast API
- **ML/AI:** Scikit-learn, TensorFlow, XGBoost, LLM Fine-tuning, Agentic AI, GenAI
- **Visualization:** Tableau, Power BI, Python (matplotlib, seaborn)
- **Framework:** Streamlit, Fast API
- **Tools:** Git, Jenkins, JIRA, Confluence, JMP

Projects

Customer Sentiment Analysis System

- Developed multi-class sentiment classifier achieving 90% accuracy on 50K+ Amazon reviews using LSTM, CNN, and TF-IDF feature engineering

NBA Player Value Analytics

- Built salary prediction models using advanced regression techniques and statistical testing (ANOVA, Tukey) to identify market inefficiencies
- Delivered contract optimization insights for 400+ players, highlighting over/under-valued talent for strategic team building