

Gagandeep Singh Thind

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PROFESSIONAL SUMMARY

Early career Data Scientist with 2 years of applied experience through internships, academic research, certifications and projects. Skilled in ML, MLOps, and cloud platforms (Azure, AWS) with a focus on building real-time forecasting systems and production-grade pipelines. Recently designed a cloud-native financial prediction platform on Azure with up to 85% accuracy. Open to roles in Data Science, ML Engineering, and Data Engineering.

TECHNICAL SKILLS

- **Languages and Machine Learning:** Python, SQL, PySpark, Supervised/Unsupervised ML, Deep Learning (CNNs, Transformers), Time Series (SARIMAX, XGBoost), NLP (FinBERT), Statistical Analysis
- **Cloud & Data Engineering:** Azure (Databricks, Azure ML, Data Factory), AWS (SageMaker, S3, EC2, Lambda), MLOps, CI/CD, Git, ETL/ELT, Snowflake, BigQuery, PostgreSQL, MySQL, TSQL & MS SQL-server, S3, Real-Time Data Ingestion
- **Visualization & BI:** Tableau, Power BI, Streamlit, Matplotlib, Plotly, Seaborn

PROFESSIONAL EXPERIENCE

Data Scientist Research Assistant (Internship) | University of Calgary | Calgary, AB

May 2025 – Aug 2025

- Architected QuantEdgeX, a cloud-native stock prediction platform on Azure, achieving 70–85% directional accuracy on intraday forecasts.
- Built hybrid SARIMAX + XGBoost pipelines with advanced features (RSI, EMAs, time-decayed sentiment).
- Automated full MLOps lifecycle with Databricks + Azure ML (data ingestion, retraining, versioning, inference).
- Delivered interactive Streamlit dashboard + Gemini API chatbot for model explanations and trading insights.

Data Analyst (Co-op) | Alteryx | India

Dec 2022 – Mar 2023

- Optimized ETL pipelines using Alteryx Designer, reducing data processing time by 30%.
- Collaborated with cross-functional teams to deliver data insights and automate reporting solutions for non-technical stakeholders.

PROJECTS

Tweetstorm to Wall Street | Real-Time Stock Forecasting with Sentiment Analysis

- Built a real-time pipeline combining FinBERT (NLP) and SARIMAX to generate 15-60 minute stock forecasts with 98% back-tested accuracy.
- Deployed end-to-end on AWS SageMaker + EC2 with results stored in DynamoDB.

Query Quest | Big Data Analytics with Google BigQuery & Federated Queries

- Designed a cloud analytics pipeline showcasing Google BigQuery for real-time querying, external data integration, and modern visualization, leveraging Datastream for data ingestion, Gemini AI for query assistance, and Tableau/Looker Studio for dashboarding to analyze large-scale datasets.

Sky High Satisfaction | ML Analysis of Airline Customer Satisfaction

- Analyzed 120K+ passenger survey records; identified key drivers of satisfaction.
- Trained multiple ML models (KNN, Random Forest) to predict satisfaction with high accuracy.

PROFESSIONAL DEVELOPMENT

Deloitte Data Analytics Virtual Experience | Forage Platform June 2025

- Completed a job simulation focused on data analytics and forensic technology within a professional services context.
- Developed interactive dashboard in Tableau to visualize key business metrics and identify anomalies in transactional data.
- Performed data classification and cleaning in Excel to draw actionable conclusions for a mock client engagement.

EDUCATION

Master of Data Science and Analytics | University of Calgary | Calgary, AB

Sep 2024 - Aug 2025

- Relevant Coursework: Developing Big Data Applications, Statistical & Machine Learning, Working with Data at Scale, Actionable Visualization & Analytics.

Bachelor of Technology, Computer Science | Gyan Ganga College of Technology | India

July 2019 - Jun 2023

- Relevant Coursework: Machine Learning, Cloud Computing, Database Management Systems.