

Abhijeet Singh

Data Engineer II - Bell Canada

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Highlights

- Skilled Data Engineer II and ML Developer with 5+ years of expertise in building and optimizing end-to-end Data and ML pipelines
- Highly proficient in developing and deploying ELT/ETL data pipelines, data modelling & warehousing, classification & prediction modelling using NLP, LLMs and statistical methods with 7+ years of research and industrial experience
- Demonstrated strong leadership, representation, and teamwork by collaborating with diverse stakeholders, eagerly tackling new challenges and adapting flexibly to evolving project demands
- AWS Cloud Practitioner, Databricks Applied data Science, Databricks Apache Spark SQL for Data Analyst, Bell Excellence and Innovation Award 2022,2024

Relevant Work Experience

Data Engineer II

Jan. 2024 - Present

Bell Canada, Toronto, ON

- Led design and automation **10+ end-to-end data pipelines** on **Azure**, ingesting millions of records daily from SAP and legacy systems into **Snowflake** for market segmentation. Implemented CI/CD with **Azure DevOps** for streamlined deployments, and used **ADF**, **Azure Functions**, and ELT best practices to deliver scalable, cost-efficient solutions (40% faster queries & 99.9% uptime)
- Designed scalable, optimized data models and built robust **backend APIs** to manage millions of sales-representative records. Orchestrated end-to-end data pipelines on **Azure using Data Factory**, **Azure SQL**, and **Azure Functions**—delivering high-performance, maintainable solutions aligned with enterprise data architecture standards
- Built and orchestrated telecom order processing pipelines on Azure using Data Factory, **Event Hubs**, **Azure Databricks**, and **Synapse**. Engineered scalable **ETL workflows** to support machine learning-driven customer segmentation, enabling efficient **data ingestion**, **transformation**, and model scoring with 88%+ accuracy. **Ensured seamless integration across services with CI/CD and monitoring**
- Designed and automated end-to-end **data pipelines** on **GCP** using **Cloud Composer (Airflow)**, **PySpark** on **Dataproc**, and **BigQuery** to process 200K+ timesheet records daily. Optimized data reconciliation workflows, reducing errors by **30%** and improving performance by **40%**, while ensuring scalability, reliability, and cost-effective processing

Data Engineer I

Jan. 2021 - Dec 2023

Bell Canada, Halifax, NS

- Designed and deployed a **streaming** fraud detection pipeline on GCP using **Pub/Sub**, **Dataflow**, **BigQuery**, and **Vertex AI**. Enabled low-latency model inference with neural networks, achieving a **92% F1 score** and \$1M+ annual fraud savings. Built with CI/CD, monitoring, and data quality checks for scalability and reliability
- Built and orchestrated 9 batch prediction pipelines on **GCP** for **customer churn** using Cloud Composer, **Pub/Sub**, **BigQuery**, and **Vertex AI**. Automated data ingestion, transformation, and model deployment for scalable, repeatable batch scoring
- Built an automated machine learning pipeline for finance revenue forecasting on **Alteryx**, reducing forecast error **MAPE** by **20%** and manual effort by **40%**

- Gained a deep understanding of **business values** and **agile delivery model** through close collaboration with the business and tech team

Data Scientist and ML Researcher

Jan. 2020 – Jan. 2021

Dalhousie University, Halifax, NS

- Developed an **NLP-driven** binary classification model using **TF-IDF** and **Word2Vec** to identify duplicate Quora questions, **84% precision**, and **90% recall**
- Designed and implemented a **sentiment analysis** pipeline for online reviews using **SpaCy-based** feature engineering and cross-validation, achieving a **90.08% F1 score** with an **SVM model**

Logistics Data Analyst

Sep. 2018 – July. 2019

Star Cement, Guwahati, India

- Handled data cleaning, missing value treatment, and preparation for analysis with full process documentation to support logistics insights
- Created visualizations using Python and Tableau to present user stories and drive data-informed decisions in logistics operations

Education

Masters, Computer Science (ECommerce)

Sept. 2019 – May. 2021

Dalhousie University

Halifax, NS

B.Tech. in Computer Science and Engineering

Apr. 2014 – Aug. 2018

AKTU University

Lucknow, India

Technical & Soft Skills

Languages: Python, Java, C++, SQL, C#, JavaScript, PHP, HTML/CSS, PySpark

Tools: GCP, Azure, Linux, Git, Terraform, Docker, Shell, Bash, Apache Kafka, Apache Beam, Apache Airflow

Visualizations: Tableau, Matplotlib, Seaborn, Plotly, Microsoft Power BI, LIME, Streamlit

NLP: NLTK, Spacy, Gensim, Hugging Face, Stanza, LangChain, DeepSpeed, PaddlePaddle

Libraries: Tensorflow, Pytorch, Keras, Sklearn, OpenCV, YOLO, Pandas, Numpy

Database: MySQL, Microsoft SQL Server, SQLite, PostgreSQL

Soft Skills: Management & Leadership, Critical Thinking, Communication, Work Ethic, Time Management, Creativity

Professional Contributions

- End-to-End Data Engineering: Automating Cryptocurrency Data Pipelines with GCP, Medium. Built a serverless ETL pipeline using Cloud Functions, Cloud Composer, and BigQuery to automate crypto data ingestion and reporting. [Article Link](#)
- GitHub Archive: Data Engineering and Analytics Project, Medium Built a scalable GCP data pipeline using Terraform, Cloud Storage, BigQuery, and Cloud Composer to automate GitHub event analytics and infrastructure provisioning. [Article Link](#)