

Akshat Thakur

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SKILLS

- **Data Science:** Python (Pandas, NumPy, SciPy, scikit-learn, TensorFlow, PyTorch, Keras, SpaCy), R, SQL, Generative AI (LLMs, RAG, HuggingFace, LangChain), Time-Series Forecasting, Computer Vision, NLP
- **Data Engineering & Analytics:** dbt, Snowflake, BigQuery, AWS, Azure, GCP, Docker, ETL Automation, Jupyter, Colab, Tableau, PowerBI, Looker, Google Data Studio, Kibana
- **Software Engineering:** Java, JavaScript/TypeScript, Vue, React, HTML, CSS, Mocha / Chai, APIs

EXPERIENCE

The University of British Columbia

Vancouver, BC

Data Analyst (Python, R, SQL, Snowflake, Tableau, Llama, HuggingFace)

Oct 2022 – Current

- Developed predictive analytics and machine learning models for donor and alumni segmentation and insights (clustering, recommender systems) and structural equation modeling (SEM), driving millions in fundraising and engagement strategies and increasing campaign response rates.
- Built an advanced Generative AI chatbot leveraging Retrieval-Augmented Generation (RAG) and Large Language Models (LLMs) with open-source tools (Llama, HuggingFace), cutting staff inquiry workload by 73%.
- Automated ETL pipelines and model training workflows, reducing analysis turnaround by 175% and ensuring reproducibility at scale.
- Designed [award-winning](#) dashboards and statistical reports, improving decision making and operational efficiency across 5 business units.
- **Technical Team Lead:** Served as interim technical manager, managing 7 key analytics initiatives, overseeing stakeholder engagement, and driving workflow modernization (version control, cloud migration, IDE consolidation).

Green City Data

Vancouver, BC

Lead Data Scientist (Python, SQL, AWS, Docker)

Nov 2022 – Nov 2024

- Engineered and productionized end-to-end data pipelines integrating sensor, IoT, and public datasets for climate impact assessment.
- Deployed computer vision models for emissions detection and time-series forecasting models for climate risk, containerized with Docker and served via REST APIs (FastAPI + AWS API Gateway).
- Automated large-scale workflows (Python + SQL), accelerating data processing by 60% and enabling real-time analytics.

Klue

Vancouver, BC

Data Analyst (SQL, Python, R, Google Data Studio, BigQuery, ElasticSearch)

Jan 2022 – Sep 2022

- Designed customer segmentation models that helped boost retention by 32% and increase ARR by 155%.
- Built scalable BI workflows and validated new/existing data sources across multiple systems.
- Created automated dashboards for customer and product analytics, improving reporting speed and accuracy.
- Awarded “Owning the Solution” for leadership in optimizing high-impact product features.

EDUCATION

The University of British Columbia

2017 - 2021

BSc. Statistics (Computer Science concentration)

Key Courses: Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Database Management Systems, Data Mining, Statistical Computing, Programming in Python/R, Cognitive Systems, Linguistics