Akshat Thakur

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SKILLS

- **Data Science & Machine Learning:** Python (Pandas, NumPy, SciPy, scikit-learn, PyTorch, TensorFlow), R, SQL, Snowflake, AWS, Docker
- **Generative AI:** LLMs, RAG, HuggingFace, LangChain, embedding search, prompt engineering
- **Analytics & Visualization:** Tableau, Looker, Power BI, BigQuery, dbt, Excel, Google Data Studio
- **Software and Project Management:** Git, CI/CD, JavaScript/TypeScript, APIs, Confluence, Jira

EXPERIENCE

The University of British Columbia Vancouver, BC

Data Analyst (Python, R, SQL, Snowflake, Tableau, Llama, HuggingFace) Oct 2022 – Current

- Built and deployed predictive models for donor and alumni behavior, including clustering, recommendation, and propensity models, directly informing fundraising strategy responsible for annually **raising over $250 million** and **doubling alumni interactions**.
- Applied network-based relationship mapping and scoring to uncover high-influence donor clusters, improving targeting efficiency and strengthening campaign performance.
- Developed a production Generative AI chatbot assistant using Retrieval-Augmented Generation (RAG) and Large Language Models (LLMs) with Snowflake Intelligence and Anthropic Claude 4, **reducing inbound staff inquiries by 73%** and eliminating thousands of manual responses per year.
- Designed statistical and causal models, including Structural Equation Modeling, to identify drivers of engagement and lifetime value, **reshaping targeting strategy across 5 business units**.
- Automated feature engineering, model training, and validation pipelines, **cutting end-to-end analysis time by 240%+** and enabling repeatable experimentation instead of ad-hoc analysis.
- Delivered award-winning dashboards and model outputs adopted as key decision tools by senior leadership, supplementing intuition-driven planning with quantitative decision support.
- Served as interim **Technical Team Lead**, owning strategy, scoping, prioritization, stakeholder management, and delivery for all data analytics projects, while setting technical direction, managing execution risk, and ensuring alignment between business goals and data science outcomes.

Klue Vancouver, BC

Data Analyst (SQL, Python, R, Google Data Studio, BigQuery, ElasticSearch) Jan 2022 – Sep 2022

- Built customer segmentation and churn-risk models that **increased retention by 32%** and **supported 155% ARR growth** during a critical scaling phase.
- Developed production-ready SQL and Python pipelines to support experimentation, feature analysis, and behavioral modeling across product surfaces.
- Partnered with product and engineering to define success metrics, validate data integrity, and translate model outputs into shipped product changes.
- Recognized with a company award for excellence in ownership of high-impact analytical initiatives.

EDUCATION

The University of British Columbia 2017 - 2021

BSc. Statistics (Computer Science concentration)

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