AKSHAT THAKUR

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PROFESSIONAL EXPERIENCE

The University of British Columbia, *Vancouver • Data Analyst*   *October 2022 - Present*

- o   Leveraged advanced machine learning and statistical analysis to reveal critical insights into donor and alumni behavior.
- o   Designed award-winning dashboards and statistical reports, improving decision making and operational efficiency across business units.
- o   Developed an advanced chatbot leveraging Retrieval-Augmented Generation (RAG) and Large Language Models (LLMs) with open-source tools.
- o   Automated data extraction, transformation, and synthesis processes, significantly optimizing analysis time (upto 175%).
- o   **Technical Team Lead:** Led the data analytics team as interim technical manager, overseeing project delivery and stakeholder engagement. Spearheaded 7 key analytics initiatives. Managed cross-functional meetings. Improved workflow processes with version control, cloud migration, and IDE consolidation.
- o   <u>Technologies Used</u>: Python, R, SQL, Tableau, Llama, Ollama, HuggingFace, RASA, Snowflake, Git, Azure DevOps, Confluence

Green City Data, *Vancouver • Lead Data Scientist*   *November 2022 - November 2024*

- o   Designed and executed end-to-end data pipelines, integrating data from diverse sources including sensors, devices, traffic cameras, and public repositories.
- o   Utilized statistics, computer vision, and machine learning to unearth patterns and insights, crafting predictive models for emissions forecasting and climate risk assessment.
- o   Developed and maintained automated processes for big data extraction and transformation using Python and SQL.
- o   Created comprehensive data visualizations and dashboards using PowerBI, enhancing emissions tracking and monitoring capabilities.
- o   <u>Technologies Used</u>: Python, SQL, PowerBI, AWS, Github

Klue, *Vancouver • Data Analyst*   *January 2022 - September 2022*

- o   Gathered and analyzed medium to large datasets, providing valuable reports and insights to improve customer engagement and satisfaction, address product issues, and achieve a 32% increase in customer retention and 155% ARR.
- o   Consulted and formulated strategies for process scalability while performing rigorous data validation for existing and new data sources and providers.
- o   Won 'Owning the Solution' award for being the organization's expert for optimizing and developing key features.
- o   Created and automated interactive dashboards and visualizations to support business intelligence initiatives.
- o   <u>Technologies Used</u>: SQL, Python, R, Google Data Studio, BigQuery, ElasticSearch, Pendo, Github

EDUCATION

The University of British Columbia, *Vancouver • <u>BSc. Statistics</u> (Computer Science concentration)*   *2017 - 2021*

- o   Awarded the prestigious International Merit Entrance Scholarship ($64,000)
- o   Recipient of the Outstanding International Student award ($16,000)
- o   <u>Leadership and Extra-curriculars</u> - Graphic and Architectural Design Club (President), Data Science Club (Member)

SKILLS AND ADDITIONAL INFORMATION

Data Science / Data Analysis R, Python (Pandas, NumPy, SciPy, tensorflow, PyTorch, scikit-learn, keras, SpaCy), SQL, BigQuery, Google Data Studio, dbt, Tableau, PowerBI, Looker, Jupyter Lab / Notebooks, Colab, Kibana, AWS, Docker, Snowflake, Azure, GCP, Microsoft Excel

Web / Software Engineering Java, JavaScript/TypeScript, Vue, React, HTML, CSS, Mocha / Chai, APIs, Google Analytics, Facebook Ads

Automation Developed automated processes for data extraction and transformation

Big Data Worked with large datasets, optimizing data manipulation and visualization

AI / ML Applied machine learning techniques and developed predictive models; fine-tuned LLMs for advanced chatbot development

Other Relevant Skills Git / GitHub, Confluence, JIRA, Googling, Communication, Leadership, Figma, Creative Problem Solving