SARABPREET SINGH REKHI

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EDUCATION

Concordia University   **Montreal, QC**
Bachelor of Computer Science - Co-op   *January 2020 - May 2025*
- **Relevant Courses:** Artificial Intelligence, Data Analytics, Big Data Analytics, Databases, Web Programming

PROFESSIONAL EXPERIENCE

CN   **Montreal, QC**
Safety Data Analysis Intern   *May 2024 - August 2024*
- Mapped and documented databases for train, car, and locomotive safety analysis, streamlining data retrieval and reducing preparation time by 30%.
- Designed and developed Trip Analyzer Tool using Python, JavaScript and HTML/CSS, integrating KQL for database connections, automating reporting, and improving efficiency by 70%.
- Evaluated and implemented Databricks for large-scale data analysis, leveraging Spark to enhance data processing by 40%.
- Co-developed a Power BI dashboard to analyze trip metrics, including emergency braking and PTC compliance, cutting manual analysis efforts by 60%.
- Delivered Linux troubleshooting and ticket-based support for critical internal systems.

Bombardier   **Montreal, QC**
Project Engineering Intern   *May 2022 - December 2022*
- Migrated an internal timecard tool to C#, modernizing the interface and functionality using JavaScript, Html/CSS, which boosted user satisfaction by 30% and increased submission efficiency by 20%.
- Developed a Microsoft PowerApps coordination tool with automated database updates via Microsoft Flow and SharePoint, reducing task mismanagement by 50% and streamlining project management.
- Delivered end-to-end technical support for the timecard tool, enabling seamless adoption by 100+ staff members and resolving issues within 24 hours.

Sherweb   **Montreal, QC**
M365 Premier Technical Advisor IV   *February 2018 - March 2022*
- Delivered ticket-based support and incident management for Microsoft Teams and M365 suite, resolving issues across all severity levels while reducing client-reported problems by 20%.
- Enhanced issue resolution efficiency by coordinating SMEs and Microsoft engineering teams, improving response times and optimizing support workflows.

PROJECTS

Toronto Crime Trends Analysis and Prediction   **Montreal, QC**
Python, Pandas, Numpy, Matplotlib, Machine Learning (Scikit-learn), Google Collab, Streamlit   *January 2024 - April 2024*
- Applied data analytics to integrate and analyze large datasets, uncover crime trends, and derive actionable insights using exploratory data analysis (EDA) and ETL processes.
- Developed and optimized classification models, including Decision Tree and Multi-Layer Perceptron, to predict crime types with 85%+ accuracy, leveraging hyperparameter tuning and performance metrics like precision and F1 score.

HR Analytics - Power BI Dashboard   **Montreal, QC**
MS Excel, Power BI, Power Query, DAX   *January 2024*
- Led an HR Analytics project using Power BI to analyze employee work preferences, optimize hybrid work models, and improve team event planning.
- Conducted sick leave analysis to identify high-absence periods and underlying causes, driving initiatives to enhance employee well-being and productivity.

ACTIVITIES & LEADERSHIP

Concordia Sikh Student Association   **Montreal, QC**
Vice President of Internal Affairs   *April 2021 – September 2024*

Khalsa Aid   **Montreal, QC**
Volunteer   *April 2021 – Present*

SKILLS & INTERESTS

Operating Systems: Linux, Windows, Mac
Programming Languages: SQL, KQL, Python, C #, JavaScript, HTML/CSS
Tools: Power BI, Tableau, MS Excel, Spark, Autosys, ServiceNow, Git, Docker, PowerApps, Flow, SharePoint, Visual Studio Code
Database Management Systems: MySQL, MongoDB, Microsoft SQL, PostgreSQL
Cloud Services: AWS, Databricks, Snowflake