Simarpreet Kaur

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EDUCATION

McMaster University
Honours Bachelor of Applied Science, Computer Science — Expected Graduation: 2026

St Lawrence College
Computer Networking and Technical Support — Sept 2017 – June 2019

CERTIFICATIONS

- Neural Networks and Deep Learning
- Google Advanced Data Analytics Certificate
- The Nuts and Bolts of Machine Learning - Google
- Regression Analysis: Simplify Complex Data Relationships - Google
- Data Science Certification – BrainStation
- Improving Deep Neural Networks
- Data Analysis with Python – IBM
- Getting Started with Python – Google
- Go Beyond the Numbers: Translate Data into Insights – Google
- The Power of Statistics – Google

PROJECT EXPERIENCE

Waze User Data EDA and Executive Summary
Uncovered key behavior patterns across 20,000+ Waze user sessions.

- Cleaned and analyzed user activity data in Python (Pandas, Seaborn)
- Visualized trends in session length, drive frequency, and location clusters
- Delivered a data-driven executive summary using the PACE strategy for stakeholders

Employee Retention Prediction – Salifort Motors
Predicted employee turnover using ML models to inform HR decisions and reduce costs.

- Achieved 95%+ accuracy with ML models (Logistic Regression, Random Forest, XGBoost) predicting employee turnover
- Analyzed 15,000+ HR records to uncover attrition drivers like department, workload, and hours
- Derived insights to support retention strategies and lower recruitment costs

Supplier KPI Dashboard - Tableau
Analyzed procurement performance data to evaluate supplier efficiency using key KPIs.

- Built an interactive Tableau dashboard with filters for supplier and material type
- Created calculated fields and conditional formatting to highlight top-performing and underperforming suppliers
- Enabled strategic decision-making by visualizing trends and deviations across procurement metrics

TECHNICAL SKILLS

Languages & Tools: Python, SQL, Java, C/C++, Pandas, NumPy, Scikit-learn, XGBoost, Tableau, Jupyter, PowerBI, Excel, Powerpoint
ML & AI: Supervised Learning, Deep Learning, Neural Networks, Clustering, Regression, Classification, Model Evaluation, Performance Tuning, TensorFlow
Foundations: Calculus, Linear Algebra, Data Cleaning, EDA
Visualization: Matplotlib, Seaborn, Tableau, Data Storytelling