MEHJABIN TATTU

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SUMMARY

Highly motivated Master of Data Analytics student at the University of Niagara Falls Canada with hands-on experience in **Python, SQL, Tableau, and Power BI**. Skilled in **data cleaning, visualization, and predictive analytics** to uncover insights that drive strategic business decisions. Adept at applying **statistical and machine learning techniques** to real-world datasets, delivering clear, data-driven recommendations that enhance operational and organizational performance.

EDUCATION

Master of Data Analytics, University of Niagara Falls Canada – Expected 2026

SKILLS

Data Analysis & Visualization: Excel, Power BI, Tableau, Matplotlib, Seaborn

Programming & Scripting: Python (Pandas, NumPy, Scikit-learn), SQL

Machine Learning: Supervised & Unsupervised Learning & Regression

Database Management: MySQL, PostgreSQL

Automation & ETL: Power Query, Python Automation

Statistical Analysis: Hypothesis Testing, A/B Testing, Data Cleaning

Soft Skills: Problem-Solving, Critical Thinking, Communication Attention to Detail

PROJECTS

1. AI Job Salary Prediction Model (Python & Power BI)

- Built regression-based models using Kaggle's Global AI Job Market dataset (15,000+ records) to predict salaries based on experience, benefits, and employment factors.
- Applied data transformations (Log, Box-Cox, Square Root) to improve model accuracy ($R^2 = 0.921$) and visualized insights via Power BI for HR benchmarking.

2. Reinforcement Learning for Dynamic Pricing – Uber Surge Pricing Case Study

- Implemented Q-Learning to optimize Uber's surge pricing based on real-time demand-supply dynamics.
- Modeled an agent-environment loop to improve ride completions and reduce unserved demand.
- Compared RL outcomes with static pricing, achieving higher efficiency and customer satisfaction.

3. Stock Performance Analysis of Canadian Media Companies (2020–2025)

- Analyzed stock performance and volatility of Canadian media firms using Python (Pandas, yfinance, SQL) and Tableau.
- Applied OLS, ARIMA, and GARCH models to forecast trends and assess risk-return relationships.
- Delivered investment insights through dashboards and statistical modeling to guide diversification strategies.

4. Healthcare Quality and Performance Visualization Project

- Built interactive Tableau dashboards analyzing data from 4,800+ U.S. hospitals to assess care quality and efficiency.
- Visualized key metrics such as mortality, readmission, and patient satisfaction using maps, KPIs, and filters.
- Applied advanced Tableau features to reveal trends by state, ownership type, and service availability.