

Profile Summary

Data Scientist/Analyst with 5 years of experience in data analytics/data science and 5+ years of experience in Telecom engineering, both inside and outside of Canada.

- **Data Analysis:** Expert in data visualization, interpretation, and **analysis to derive actionable insights** and recommendation. Proficient in data extraction, loading, cleaning, and transformation
- **Statistical Knowledge:** Strong background in statistics and mathematics with experience in statistical methods and **advanced modeling**.
- **Machine learning:** Highly experienced in Machine Learning: **Supervised and Unsupervised Learning - Predictive models:** (Linear/Multilinear/Logistic regression, Classification/K-nearest neighbors, random forest/ Decision Tree, Cluster analysis, dimension reduction, Neural Networks ...)
- **Python for Data Science:** Proficient and Experienced in Python **numpy, pandas, scikit-learn, TensorFlow & Keras, matplotlib, seaborn and Plotly for visualization and more**
- **SQL Proficiency:** Advanced level in SQL (Server), including advanced querying, data mining, data cleansing.
- **Visualization Tools:** Solid experience with **Tableau and PowerBI** (dashboards/ reports and visualizations).
- **A/B Testing:** Skilled in designing and conducting A/B tests to evaluate antenna tilt changes. The tests showed a 20% improvement in coverage and capacity in the variation group (B) compared to the control group (A).
- **Reporting skills:** Highly experienced in generating comprehensive reports, including detailed documentation.
- **Presentation Skills:** Exceptional presentation and analytical skills with a talent for storytelling.
- **Troubleshooting/Problem-solving:** Excellent troubleshooting and problem-solving abilities with outstanding interpersonal skills.
- **Project Planning:** Experienced in managing complex end-to-end projects with strong prioritization skills to meet specific timelines.
- **Communication:** Ability to explain and simplify complex ideas for various stakeholders: exceptional written and verbal communication skills, along with active listening to fully comprehend the speaker
- **Flexible and adaptable:** able to change tasks and roles fluently and effortlessly, as I am always **open to learning** with an **open-minded attitude** and **enjoy new challenges**
- **Independent Work:** High ability to work independently in a fast-paced environment
- **Motivated and Self-starter:** highly motivated and always taking the initiative in various tasks or projects; an eager learner who continuously seeks out **new knowledge** and skills to enhance performance
- **Team Collaboration:** Strong ability to partner and collaborate with team members to optimize work.

Other skills

- Solid knowledge of AWS and Google Cloud Platform.
- Version control software and platform, Github/Git
- Building Data ETLs and Pipelines
- ChatGPT prompt engineering + ChatGPT APIs for building apps and AI ChatBot.
- JIRA, Confluence and other tools for project management and collaboration workflows.
- Outstanding organizational and documentation skills
- Proficient in English and Fluent in French

Other Projects

- Using **advanced Python/ML** to build different Predictive models such as:
 - **Decision tree model** to classify patients and predict the high likely of a candidate to get sick (or be sick) (leveraging F Score/Recall and Precision, False positives and True Negatives metrics)
 - Predicting House prices in California(using linear regression models)
- Using **Git/GitHub** for version control in the data analysis workflow and modeling process (Python, SQL)
My GitHub including all the projects: <https://github.com/hsabaghpour>

Professional Experience

TELUS

Data Analyst and RF Engineer

May 2019 – April 2024

- Responsible for **Planning and optimizing** of TELUS Wireless network in the lower mainland area including Vancouver Downtown, North/West Vancouver, Burnaby, TriCity, Langley and Surrey.
- Performing **data Modeling** to classify dissatisfied subscribers by analyzing complaint types and Network KPIs using **Clustering techniques such as K-nearest neighbors**.
- **Monitoring** Network Performance **KPIs** and **detecting anomalies** and degradations, identifying the root causes, **troubleshooting** and **mitigating** both significant and minor cases.
- Using **A/B testing** to test the recommended changes before applying it on all the antennas: to reduce the cost of driver testing and make sure that the change is converted to performance increase and higher conversion rate.
- Using **Statistical methods** to compare datasets to provide **recommendations** for a better performance.
- Creating **Dashboards and visualizations** to track and monitor **streamed Data and traffic** using **Tableau, Google Cloud platform** and **Google Spreadsheet**.
- **Retrieving Data from multiple** resources such as **Tableau** or **Google Cloud Platform** using **SPLUNK** to **query the data** utilizing **SQL-Like query language** (SPL: Search Processing Language)
- **Preparing and presenting Market-Level reports** to different stake-holders (**large audience**).
- Achieving one of the highest performing markets within TELUS at the national level.
- Using **JIRA and Confluence** tools to manage and track **project workflows and timelines**.
- **Mentoring, training** and **supervising** new team members and Junior Engineers.

NOKIA Consultant and Data analyst

Nov 2017 – Nov 2018

- **Collecting data** from various sources, **preparing it and manipulating** it using (**SPLUNK, SQL**) such as signal strength, interference levels, network traffic and **performance metrics** from different network elements
- Using **Statistics** to interpret and provide the right solution and **recommendations** for a better performance.
- **Creating** thorough monthly **reports** and **Dashboards (using Tableau)** to assess and **monitor different data points** such as latency, coverage holes, Network load and call setup success rate.
- **Troubleshooting** high escalated drop calls and congestion network issues by **analyzing Network data** to **identify trends, patterns, and anomalies** in network performance and coverage.
- Collaborating with customer service and technology departments to **communicate findings and present recommendations** to implement improvements.
- **Training diverse groups** with **different backgrounds** inside and outside the company.
- **Optimizing** Network KPIs by analyzing different measured attributes like RRSP, RRSQ, SINR

ERICSSON (Outside of Canada)

Data Analyst and RF performance (optimization Analyst)

Jan 2011 - Feb 2016

- Managing RF Optimization technical team for a multi vendor mobile operator, MTN. (Nokia and Ericsson)
- Fetching and collecting data from various sources using **SQL, Spreadsheets and OSS databases**.
- Utilizing **Excel and python** to visualize and monitor the network data and provide **recommendations for improvements**.
- Preparing and **presenting weekly reports** to different stakeholders to provide them with network updates and coverage performance.
- Supervising VIP and enterprise client complaints cases, in order to guarantee that the technical team is providing the best customer experiences throughout the network.

Education and Trainings

B. Sc. In Telecommunication Engineering: University of Science and Technology 2003

The Advanced SQL Server Masterclass for Data Analysis - Udemy 2024

Statistics for Data Science and Business Analysis - Udemy 2018

Google Data Analytics Certification - Coursera 2024

Python and Machine Learning - Udemy - 2018

Python for Data Science and Machine Learning Bootcamp Online course - Udemy 2018

Python Bootcamp Online course - Udemy 2018