

# Maryam Abazari

## Data Analyst

Montréal, Québec 5142435166 [maryam.abazari1995@gmail.com](mailto:maryam.abazari1995@gmail.com) [LinkedIn](#) [GitHub](#)

## Summary

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Detail-oriented and analytical data analyst with over 3 years of experience in interpreting and analyzing data to drive successful business solutions. Proficient in data visualization, statistical analysis, and data manipulation with a strong background in SQL, Python, R, and BI tools. Adept at transforming data into actionable insights following new technologies to support decision-making processes. Strong problem solving and communication skills with technical and non-technical stakeholders.

## Skills

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- **Programming Languages:** Proficient in Python (Pandas, Numpy, Seaborn, Matplotlib, Plotly, Dash, PyTorch, Scikit-learn) and R.
- **Data Visualization and BI tools:** Strong skills in building models and dashboards with PowerBI and Tableau.
- **Database Languages:** Over 3 years of experience crafting complex SQL queries for data extraction and preprocessing from relational databases or data warehouses.
- **Microsoft Office Suite:** Advanced Excel (Formula, Chart, Power Query), Access, and Word.
- Strong understanding of **statistical principals**, with exceptional **problem solving** skills.
- Excellent **communication skills** both verbal and written to explain complex technical concepts to non-technical stakeholders effectively in a fast paced environment.

## Working Experience

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### GRADUATE RESEARCH ASSISTANT, POLYTECHNIQUE MONTRÉAL

JAN 2022-JUN 2024 (2 YRS, 6 MOS)

My master's thesis titled, "Solving Combinatorial Optimization Problems (COPs) with Machine Learning-driven Local Search", I developed and implemented a novel approach using neural networks to improve the local search process of the meta-heuristics to solve COPs.

- Proficient in leveraging a wide range of neural networks and reinforcement learning algorithms.
- Skilled in extracting, cleaning, and preprocessing data for analysis using Python libraries such as NumPy, Pandas, Seaborn, and Matplotlib.

### DATA ANALYST, MILAD HOSPITAL

SEP 2020-OCT 2021 (1 YR, 2 MOS)

Milad Hospital is one of top 10 specialized hospitals in Iran with more than 4000 personnel.

- Translated the hospital's overarching business objectives into detailed requirements, which were then executed as discrete projects aimed at generating insights and driving operational efficiencies.
- Gathered, analyzed, and interpreted complex healthcare data, including patient records and treatment outcomes.
- Partnered with medical staff, administrators, and IT teams to identify data-driven opportunities for process improvement.

- Utilized SQL, Tableau, and Excel for data analysis, visualization, and reporting.
- Contributed to improving patient outcomes, reducing costs, and optimizing overall hospital operations.

#### **DATA ANALYST, COMMERCE DIVISION OF REFAH CHAIN CO**

NOV 2017-AUG 2020 (2 YRS, 10 MOS)

Refah Supermarket Chain Store is one of Iran's largest retail chains, operating over 500 stores nationwide and serving millions of customers each month.

- Gathered, cleaned, queried, and transformed data from multiple data sources using Excel and SQL.
- Designed, developed, and created custom automated reports and dashboards using Excel and Tableau, identifying trending products and peak store hours, which led to strategic inventory control and managerial insights that boosted revenue and reduced costs.
- Presented trends and analytical findings in clear, actionable presentations to senior management, driving data-driven decision-making.
- Recommended adjustments to product listings and promotions based on monthly analysis, optimizing product placement and enhancing sales.
- Modeled complex relationships within the store chain as ERD diagrams using Visual Paradigm, ensuring accurate data representation and analysis.

## Education

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#### **Master of Computer Engineering**, Polytechnique Montréal, Montréal, Canada Jan 2022-June 2024

- Selected Courses: Data Visualization, Machine Learning, Deep Learning, Operation Research
- Activities: Volunteer at Caspian (Iranian Students Association of the UdeM, HEC, and Polytechnique Montréal)

#### **Master of Technology Policy Analysis**, Sharif University of Technology, Iran Sep 2018-Dec 2020

- Selected Courses: Health Care Information System, Statistics and Probability II, Design of Experiments
- Activities: Volunteer at Yarigaran Charity Organization, Social Volunteer at Fardaye Sabz Charity

#### **Bachelor of Engineering**, Sharif University of Technology, Tehran, Iran Sep 2013-Dec 2017

- Selected Courses: Statistics and Probability, Project Management, Management Information System, Computer Information System
- Activities: Volunteer at Student Entrepreneurship Center

## Certificates

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**Databases and SQL for Data Science**, a comprehensive introduction to using databases and SQL for data science applications, 2024.

**Pattern Discovery In Data Mining**, exploring advanced techniques and algorithms for identifying patterns and insights in large datasets using data mining methodologies, 2022.

**Machine Learning and Data Science A-Z: Hands-on Python**, a comprehensive hands-on introduction to machine learning and data science, utilizing Python to build practical skills and real-world projects, 2021.