

# Maryam Ahmadi

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My GitHub link - <https://github.com/Maryam-Ah?tab=repositories>

**PROFILE:** Accomplished professional with +8 years of experience with proven success in Data Science, statistical modelling & enterprise-scale application development for different industries. Business-minded data scientist with a demonstrated ability to deliver valuable insights via data analytics and advanced data-driven methods. Accomplished communicator skilled in collaborative relationships, conveying big-picture insights, and driving opportunities through team support and success. Passionate engineer & thriving analyst with the ability to apply ML techniques & algorithms development to solve real world problems.

## PROFESSIONAL EXPERIENCE

### **Expert AI and Machine Learning Engineer, CN, March 2021 – Present**

As a leader of Mlops team:

- Clarified requirements and ensure solution meets business needs.
- Assist with estimating efforts of work breakdown structure elements associated with domain(s) of expertise.
- Participate in workshops with different stakeholders to determine scope.
- Supported Data Scientist and ML Developer on the design and development of ML Solutions.
- Led the development of re-usable development assets and the productization of machine learning pipelines.

As an AI engineer on a PDS integrator team:

- Designed Machine Learning/Devops pipeline for CN rail automation.
- Designed and implemented Machine Learning pipeline for PDS application.
- Designed and implemented Machine Learning pipeline for computer vision model.
- Define and maintained engineering and configuration standards.
- Created detailed design/ blueprint diagrams and documentation for the solution.

### **Data Science Instructor, BrainStation, Toronto, September 2022– December 2022**

- Conducted comprehensive Data Science courses, providing students with hands-on experience in statistical modeling, machine learning, and data analytics.
- Developed and delivered engaging curriculum modules, covering topics such as Python programming, machine learning algorithms, and data visualization.
- Guided students through practical projects, fostering a real-world understanding of data science applications.
- Received positive feedback from students, showcasing effective communication and teaching skills.

### **Mentor at Women in AI Canada, August 2022 – Present**

- Provide support to women to kick-start or grow their career in AI.
- Provide support to women to advance quickly in the field of AI.
- Provide support to help women transition from technical to leadership roles.

### **Machine Learning Engineer, Omdena, Jun 2020 – March 2021**

- Train, validate, test and develop machine learning models.
- Developing machine learning pipelines that curate datasets, train, test, and validate models, compare model performance to existing or previously catalogued models **Azure DevOps**.

- Develop Docker container with all relevant tools, platforms, libraries- Container configuration file as well as container deployment instructions /parameters.
- Built a Data drift monitoring pipeline in Azure ML for early warnings to potential issues, which helped **detect model performance issues in 90%**.
- Monitor junior ML engineers, provide their tasks for each project and regularly hold code reviews.

#### **Freelance Data Scientist, Various, Nov 2018 - Apr 2020**

##### **Sample projects:**

- Developed a **CI / CD** pipeline using **Azure DevOps** for one of the **Cineplex** company's models.
- Developed and deployed a regression model to predict the number of empty rooms in shelters in the city of Toronto, with **Python, Docker, Flask and Azure ML** (this model has been used as a part of the Region of Peel's smart city project).
- Built a web application that supports online prediction using a trained machine learning model and pipeline.

#### **Developer, Hudson's Bay Company, Toronto, May 2019 - Jun 2020**

Worked with cloud-based solution platforms to apply recommendation algorithms on the emails and wrote programming code, either from scratch or by adapting existing HTML code. **I saved the company around \$80,000** yearly by working on a new product recommender platform among my main responsibility as a developer.

#### **Database Developer, Rah Sazan, Iran, Jan 2019 - Mar 2019**

- Wrote database documentation, including data standards, procedures and definitions for the data dictionary.

#### **Web Developer / Designer, Simpack company and Freelancer, Toronto, Sep 2016 - Nov 2018**

- Designed and developed user-centred websites for the faculty and its department.

### **TECHNICAL SKILLS**

- **Programming Languages / Frameworks:** Python, C#, Java, SQL, Dreamweaver.
- **Cloud-based Services:** Azure ML, Azure DevOps / MLOps, Azure Data Factory, and Databricks, SqlDBM,
- **ML Libraries / Frameworks:** Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Tensorflow, PyCaret, OpenCV.
- **Machine Learning Algorithms:** Regression, Classification and Clustering techniques, Image Segmentation and Object Detection.

### **EDUCATION**

**MS of Computer Engineering - Algorithms and Computations**, University of Tehran, Iran - 2015

**BS of Software Engineering**, University of Bonab, Iran - 2011

**Certified Data Scientist**, University of Toronto - 2020