**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.
* Leaded 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 filed 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 could-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,** Simpact company and Freelancer, *Toronto,* ***Sep******2016 – Nov 2018***

* Designed and developed user-cenetred 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