

# Maryam Ahmadi

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## Data Scientist | Machine Learning Engineer | Software Engineer

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

**PROFILE:** Data Scientist with +3 years of programming experience in Python, C#, Java, SQL and hands on experience on building end-to-end Machine Learning models, large-scale data, algorithms, and analytics applications and deploy model with cloud platforms such as Azure ML.

### AREAS OF EXPERTISE

- Data exploration, sampling, data generation, feature engineering, Statistical model building, and performance evaluation.
- Train, validate, test and develop machine learning models.
- Implement Regression, classification and clustering techniques, Image Segmentation and Object Detection.
- Relational database design and implementation.

### TECHNICAL SKILLS

- **Programming Languages / Frameworks:** Python, C#, Java, SQL, Tableau, Dreamweaver
- **Cloud-based Services:** Azure ML, Google Colab, Heroku, Streamlit, Labelbox, SqlDBM,
- **Python / ML Libraries / Frameworks:** Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Tensorflow, Pytorch, PyCaret, Flask, OpenCV.

### PROFESSIONAL EXPERIENCE

#### Machine Learning Engineer, Omdena, Jun 2020 - Present

- Build, maintain and improve machine learning models to perform at scale in a production-ready environment.
- Develop new features and augment tools based on business requirements.
- Work collaboratively with the Data Architects, Data Scientists, and other members of the Analytics team to design and build all necessary data pipelines.
- Participate in the strategic development of system capabilities within advanced analytics and modelling, data mining and database marketing.
- Monitor junior ML engineers, provide their tasks for each project and regularly hold code reviews.

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

- Researched, designed, and implemented analytical and statistical models and algorithms.
- Analyzed and processed complex data sets using advanced querying, visualization and analytics tools.
- Collected, analyzed, and interpreted raw data from various websites.
- Fixed Python bugs in codes/projects.

#### Sample projects:

- Perform sentiment analysis on upcoming movies using the YouTube comments on their trailers.
- Develop a classifier with Deep learning techniques to identify if a shopping product is sustainable and to which recycling bin it belongs.
- Implementing Real-Time Lane Detection using OpenCV.
- Build a web application that supports online (one-by-one) prediction using a trained machine learning model and pipeline.
- Build a machine learning model to predict the probability that a loan will charge off.

**Email Developer, Hudson's Bay Company, Toronto, May 2019 – Aug 2020**

- Working with cloud-based solution platforms such as RichRelevance to apply Recommendation algorithms on the emails and writing programming code, either from scratch or by adapting existing HTML code and graphics packages.

**Database Developer, Rah Sazan, Iran, Jan 2019 – Mar 2019**

- Mapped out the conceptual design for a planned database.
- Installed and tested new versions of the database management system (DBMS).
- Wrote database documentation, including data standards, procedures and definitions for the data dictionary (metadata).
- Worked closely with IT project managers, database programmers and multimedia programmers.

**Freelance Web Developer / Designer, Toronto, Sep 2016 – Nov 2018**

- Designs and develops user-centred websites for the Faculty and its department.
- Implemented industry-leading HTML 5/CSS frameworks, including Bootstrap.
- DOM manipulation with jQuery and optimize websites for SEO, performance and analytics.
- Design and implement relational databases using SQL Server.

## **EDUCATION**

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

**BS of Computer Technology Engineering**, University of Bonab, Iran – 2011

## **CERTIFICATIONS**

- Machine Learning, University of Toronto - 2020
- Big Data Management, University of Toronto - 2020
- Foundation of Data Science, University of Toronto - 2020
- Statics for Data Science, University of Toronto - 2020
- Python for Data Science, Udemy, 2019
- Master SQL For Data Science, Udemy, 2020

## **SOFT SKILLS**

- Ability to work well with others as well as individually.
- Critical thinking and problem-solving skills.
- Adaptability and propensity to learn new coding languages and programs.
- Communication skills and the ability to boil down complex subjects to simple terms.