

Maryam Ahmadi

Data Scientist | Machine Learning Engineer | Software Engineer

PROFILE: Data Scientist with +4 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, Heroku and Streamlit.

PROJECT (one sample)

Smart City

I created a model that predicts the number of vacancies for shelters in the city of Toronto. I had to extract, and wrangle data from various sources/formats, and clean it, do feature engineering, and data visualization using Matplotlib and Seaborn. I applied different regression techniques such as LinearRegression, DecisionTreeRegressor, RandomForestRegressor, LinearSVR, VotingRegressor, Ridge, Lasso and NN and finally built a back-end of the web application using Flask Framework and deployed it on Heroku.

My model has been used in the Region of Peel.

link to the code: <https://github.com/Maryam-Ah/Predicting-Empty-Shelter-for-the-city-of-Toronto---Regression-Model/blob/master/Predicting%20Empty%20Shelter.ipynb>

Other projects are available in my GitHub profile: <https://github.com/Maryam-Ah?tab=repositories>

AREAS OF EXPERTISE

- Hands on experience with AWS cognitive services such as Sagemaker as well as Azure ML and Python to Train and develop machine learning models
- Implement Regression, classification and clustering techniques, Image Segmentation and Object Detection.
- Data exploration, sampling, training, data generation, feature engineering, model building, and performance evaluation.
- Expert in using Python libraries e.g. Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Tensor flow/pytorch, Keras, PyCaret, Flask.
- Relational database design and implementation.

PROFESSIONAL EXPERIENCE

Machine Learning Engineer, Omdena

2020 Jun - 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.

Personal Info

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TECHNICAL SKILLS

• Programming

Languages/Frameworks:

Python, C#, Java, SQL, Tableau, Dreamweaver

- **Cloud-based Services:** AWS, Azure ML, Heroku, Streamlit, Labelbox, SqlDBM, Google Colab

EDUCATION

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

Bachelor 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 and

Udemy ,2019

• Master SQL For Data Science

Udemy, 2020

Freelance Data Scientist, Various**2018 Nov – 2020 Apr**

- Researched, designed, and implemented analytical models and algorithms.
- Regular contributor to Machine Learning project on Kaggle.
- 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.
- Analyzing Dengue fever cases in San Juan and Iquitos with Python.

All the projects are available in my GitHub profile: <https://github.com/Maryam-Ah?tab=repositories>

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

- 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**2016 Sep – 2018 Nov**

- Implemented industry leading HTML 5/CSS frameworks, including Bootstrap.
- DOM manipulation with jQuery and optimize websites for SEO, performance and analytics.

Data Scientist 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 ability to boil down complex subjects to simple terms