

Alireza Mohammadzade

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About Me

As a Computer Engineering graduate with a strong penchant for creative innovation within the field, I look forward to bring my expertise in Data Science and Software Engineering to the industry. I am currently seeking opportunities to collaborate with passionate professionals, leveraging my comprehensive skill set in advancing technology and enhancing business operations.

Education

Imam Khomeini International University (IKIU)

Graduation date: Apr. 2022

B.S. in Computer Software Engineering | **GPA: 16.76/20**

Relevant Courses: Data Structures, Algorithms, Artificial Intelligence, OOP (Java)

Experience

Quera

Aug. 2023 - Nov. 2023

Data Scientist - Internship

Python, Mathematics, Power-BI, Scikit-Learn, Tensorflow, PyTorch, MySQL, Neo4j, Git, GitHub

Responsibilities During this Bootcamp:

- Using advanced **Computational Mathematics** and **Data Visualization** tools like Microsoft Power-BI and Python to **analyze various data** and **draw inferences and testing them** using Statistical Hypothesis Testing.
- Creating a Python **web scraper** app to scrape useful data from CoinMarketCap website.
- Creating **various databases** to store and retrieve data using **MySQL** and **Neo4j**.
- Integrating **Machine Learning** and **Deep Learning** algorithms into **various projects**, leveraging their predictive and analytical abilities to propel the process towards the objectives.
- Collaborating with 4 other team members and ensuring a well-coordinated approach by facilitating **effective communication** among team members.

Link to the Projects **Source Code** is **available in Projects Section**.

Link to the Bootcamp **Certification** is **available in Certifications Section**.

Stoshe

Mar. 2021 - Jul. 2022

Full Stack Engineer

JavaScript, Node.js, React, Python, Bash, MongoDB, Django, Git, GitHub, Docker, Linux

- Collaborated on the development of a **data-intensive application**, which assisted in **automating the generation of motion videos** with emphasis on marketing advertisement videos. The goal was to deliver effective, time-saving solutions that seamlessly translate marketing needs into compelling video content.
- Developed an advanced **web scraper** using JavaScript, Node.js, Puppeteer, React and MongoDB to retrieve the data needed for video creation.
- Developed a website with Node.js, React, MongoDB and a professional Git/GitHub workflow.
- Automated CI/CD pipelines for unit and integration testing, as well as the deployment the web app, database and Nginx using Docker Compose, GitHub Actions and scripting.

Projects

Image Caption Generator

Jan. 2024

Python, Keras, Tensorflow, Numpy, Hugging Face

- Created multiple models with different datasets for generating objective and sentimental captions for a given image.
- Created/Used multiple models for analyzing sentiment of captions.

Quera Data Science Bootcamp

Aug. 2023 - Nov. 2023

Repository of the Projects and Works Done During the Internship.

Python, MySQL, Scikit-Learn, Tensorflow, Git

- **Customer Behavior Prediction** and **Sentiment Analysis** using **Natural Language Processing** algorithms.
- Using **Supervised Learning** algorithms for **predicting closing prices** in Cryptocurrency **market analysis**.
- In **E-Commerce Products** project, We created an **image classifier** to automate product categorization.

Predicting Machine Failure Type

Python, Pandas, Scikit-Learn

- **Exploratory Data Analysis** to gain insights for better understanding of data and objective.
- Using different **Supervised Classification** algorithms to classify types of Machine Failure.

Skills

Languages:

Python, C++, SQL, JavaScript, Bash

Technologies & Tools:

Scikit-Learn, TensorFlow, PyTorch, PySpark, Django, Node.js, MySql, MongoDB, Redis, Git, Linux, Docker, CI/CD

Certifications

Task-Oriented Bootcamp in Data Science.