

# Alireza Mohammadzade

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## About Me

Aspiring Machine Learning and Software Engineer with a focus on creative computer science and engineering ideas. I'm interested in AI, Machine Learning, Software Architecture, Open Innovation and Robotics and Eager to contribute and grow in a dynamic role as a Machine Learning or Software Engineer.

## Education

**Imam Khomeini International University (IKIU)** Sep. 2017 - Apr. 2022  
B.S. in Computer Software Engineering  
Relevant Courses: Data Structures, Algorithms, Artificial Intelligence, Signals and Systems

## Experience

**Quera Data Science Bootcamp** Aug. 2023 - Nov. 2023

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

- Leveraged Computational Mathematics and Data Visualization tools for robust data analysis.
- Engineered a web scraper for extracting relevant data from Coin Market Cap.
- Implemented database solutions for efficient data storage and retrieval.
- Integrated Machine Learning and Deep Learning algorithms across diverse projects.
- Collaborated with a cross-functional team of 5 for streamlined project execution.

**Stoshe** Mar. 2021 - Jul. 2022

*Product Engineer* JavaScript, Node.js, Puppeteer, React, Python, Bash, MongoDB, Django, Git, GitHub, Docker, Linux

- Contributed to developing a data-intensive app automating motion video generation, emphasizing on marketing ads.
- Built prototypes and conducted tests to validate design concepts and identify potential issues.
- Engineered an advanced web scraper to efficiently gather data essential for video creation.
- Implemented CI/CD pipelines for seamless deployment, including unit and integration testing for the web app.

## Projects

**Intelligent Image Captioning** Jan. 2024

Developed various models for generating objective and sentimental captions for images, and applied multiple models to analyze caption sentiments. Python, Keras, Tensorflow, Numpy, Hugging Face

**Quera Data Science Bootcamp** Aug. 2023 - Nov. 2023

Applied NLP for Customer Behavior Prediction and Sentiment Analysis. Utilized Supervised Learning in Cryptocurrency market analysis for closing price predictions. Developed an image classifier for automated product categorization in E-Commerce Products project. Python, MySQL, Scikit-Learn, Tensorflow, Git

**Machine Failure Type Prediction System** May. 2023

Conducted Exploratory Data Analysis for a comprehensive understanding of objectives and data insights. Implemented various Supervised Classification algorithms for Machine Failure type classification. Python, Pandas, Matplotlib, Scikit-Learn

## Skills

### Programming 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.](#)