Amin Najafgholizadeh

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Summary

Machine Learning Software Engineer and Full Stack Developer with over 4 years of experience in building scalable ML models, web applications, and data processing pipelines. Proficient in deep learning, image processing, and SQL databases. Experienced in Python, TensorFlow, PyTorch, Django, and React. Passionate about interdisciplinary collaboration in ecological research and data science.

Experience

Senior Machine Learning Engineer   *Arian Saeed Industrial Group, Tehran, Iran*
May 2024 – Present

– Lead the development and deployment of advanced ML solutions across business domains.
– Collaborate with teams to optimize performance with state-of-the-art ML algorithms.
– Mentor junior engineers on best practices for production-grade ML models.

Full Stack Software Engineer   *Arad, Tehran, Iran*
Jan 2023 – May 2024

– Developed and deployed scalable ML algorithms using Python, Django, and React.
– Led development teams in successfully launching web applications.
– Built and maintained web interfaces for seamless user experience.

Data Scientist   *Motometrix Inc, Boston, MA, USA*
Jul 2022 – Jan 2023

– Designed deep learning models for commodity detection and product differentiation.
– Developed Bayesian statistical methods to distinguish visually similar items.
– Built real-time dashboards to monitor and evaluate model performance.

Machine Learning Engineer   *Part AI Research Center, Tehran, Iran*
Jun 2021 – Jul 2022

– Developed dynamic pricing models for train tickets using machine learning algorithms.
– Implemented data streaming and processing pipelines with Kafka and PySpark.
– Deployed AI services using Docker containers for scalable solutions.

Education

MBA in Technology   *Allameh Tabataba'i University, Tehran, Iran*
2023 – 2025 (Expected)
Bachelor's in Electrical and Electronics Engineering   *Amirkabir University of Technology - Tehran Polytechnic, Tehran, Iran*
2018 – 2022

Skills

– **Programming Languages:** Python, Java, C++, JavaScript (React, Node.js), Solidity, Django
– **Machine Learning:** TensorFlow, PyTorch, Keras, Scikit-learn, GANs
– **Data Big Data:** SQL, NoSQL, Hadoop, Spark, Kafka, Data Analysis, Data Visualization
– **Cloud DevOps:** AWS, GCP, Docker, Git, Agile Methodologies
– **Other:** Problem Solving, Team Leadership, Communication

Relevant Projects

Intelligent Quality Control System

– Developed an intelligent QC system with Python, Django, React, and TensorFlow for automating inspection.

Supermarket Automation System

– Designed computer vision-based automation using OpenCV and TensorFlow for inventory management and analysis.

AI-Based Fire Detection Application

– Created a fire detection app with Django and React, utilizing TensorFlow for AI-based detection in critical environments.

Languages

– Persian (Native)
– Turkish (Native)
– English (Fluent)
– German (Beginner)

Additional Information

– Experienced in building SQL databases and data management systems for large-scale projects.
– Strong knowledge of AI-driven pipelines, especially in image processing and ecological data analysis.
– Passionate about contributing to ecological research through advanced software and data science solutions.