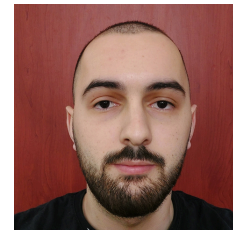# Ali Altunoğlu

Jr. AI/ML Engineer
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Linkedin: linkedin.com/in/alialtunoglu | **Github:** github.com/alialtunoglu **Portfolio**: alialtunoglu

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ABOUT ME

I am a final-year Software Engineering student specializing in MLOps, Computer Vision, GANs, and NLP. I focus on building scalable AI models, optimizing deep learning workflows, and deploying AI solutions efficiently. Passionate about innovation, I stay updated with the latest advancements in AI and machine learning.

PROJECTS   **Other Projects on Github**

- **Early Diagnosis of Alzheimer's Disease:** Achieved the highest accuracy of 97% using **Random Forest** with **RFE** for feature selection and **PCA** for feature extraction. The entire process was structured into an automated **pipeline** for efficient processing.
- **MultiShop Microservices E-Commerce Platform:** An e-commerce application developed with **Asp.Net Core** using a microservices architecture and integrating technologies such as **Redis, Docker, MongoDB, PostgreSQL, CQRS, and Ocelot.**
- **Classification of Real and Fake Face Images**: Implemented and optimized deep learning models for face image validation using pre-trained **CNNs (MobileNetV3, ResNet50, etc.)** and custom designs, achieving an average accuracy of 98%.
- **Real-Time Fire Detection System**: Developed a high-accuracy deep learning model with **Python, TensorFlow Keras OpenCV** for real-time fire detection in live video streams.

WORK EXPERIENCE

SolonPort | AI Research and Developer   **January 2025 - Present**
- I transitioned to a developer role and continued working on the container stacking project. I Developed and deployed a **REST API** with **Flask**, integrating it into a containerized system for efficient port operations.

SolonPort | Artificial Intelligence Research and Development Long Term Intern   **September 2024 - January 2025**
- I developed a project focused on optimizing the placement (stacking) of containers in port areas using **genetic algorithms, Reinforcement Learning and Deep Q-Learning.**

T.C. Ministry of Industry and Technology | AI Specialization Program   **September 2024 - Present**
- Selected as one of 120 participants in the exclusive Synchronous Group for the AI Specialization Program.
- I developed a sectoral classification model for stocks, managing a large-scale **PostgreSQL** database on Rocky Linux with **MobaXterm**. I used **Apache Spark** for big data analysis and **CatBoost** for trend modeling. For **feature extraction** and **selection**, I utilized **TSFRESH**, along with imputing missing values to improve the model's accuracy and robustness.

Sistek Computer Software and Consulting Inc. | Machine Learning Intern   **July 2024 - September 2024**
- I developed an **LSTM** model to forecast material quantities on a monthly and yearly basis. I containerized the models with **Docker** and integrated them into a **Flask** web environment to provide real-time predictions.

Turkish State Mint and Security Printing | Web Developer Intern   **July 2023 - August 2023**
- Developed a web-based document management system using **PHP** and **MySQL**, integrating MERNIS for person verification and a request tracking system for certificate stamping.

EDUCATION

Karadeniz Technical University   **September 2021- June 2025**
Software Engineering, Bachelor's Degree
Academic Overall Average: 3.52

CERTIFICATIONS

- T.C. Ministry of Industry and Technology | AI Specialization Program   **September 2024 – Present**
- BTK Akademi – Django ile Web Development   **December 2024**
- Udemy – Deep Learning A-Z   **June 2024**
- Akbank - Data Analysis Bootcamp   **May 2024**

For more certifications linkedin

SKILLS

AI/ML: TensorFlow, Keras, PyTorch, Scikit-Learn, Pandas, Numpy, Apache Spark, MLflow, OpenCV
Web: Django, Flask, ASP.NET, Spring Boot
Database: MySQL, MongoDB, PostgreSQL, MsSQL
Cloud & DevOps: Azure, Docker
Abilities: Machine/Deep Learning, NLP, Data Science & Analysis, Reinforcement Learning, Data Structure
Language: English B1(Intermediate)

REFERENCES

Emrullah Arseven (Havelsan - Database Administrator)   0536-721-3263