

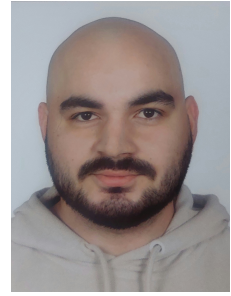
Salih Enes Metin

Machine Learning Engineer – Computer Vision & Deep Learning

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Portfolio: tutenstein.github.io | Medium: @salih.metin | Kaggle: tutenstein



Professional Summary

Machine Learning Engineer specializing in computer vision and deep learning, with hands-on experience taking models from research to production. Delivered AI solutions across medical imaging (Teknofest AI in Health finalist), industrial object tracking, and behavior-informed modeling for EV charging systems. Proficient in PyTorch, TensorFlow, and OpenCV, with a proven ability to integrate deep learning models into cross-platform products. Currently pursuing an MSc in Data Science at Gazi University.

Core Technical Skills

Programming: Python (Pandas, NumPy, OpenCV), SQL (MSSQL), C#, Dart

Machine Learning & Deep Learning: PyTorch, TensorFlow, Keras, CNNs, RNN/LSTM, Transformers, Transfer Learning, Behavioral Prediction

Computer Vision: Object Detection, Object Tracking, Medical Imaging, MMDetection, MMTracking, YOLO, Faster R-CNN, ResNet, FPN, DeepSort, ReID

Tools & Platforms: Git, Jupyter Notebook, Google Colab, Flutter (iOS/Android), .NET Core

Professional Experience

AI Software Engineer & R&D Engineer

Jan 2025 – May 2026

Renpro

Ankara, Türkiye | On-site

- Designed and implemented AI-based solutions to improve the efficiency of electric vehicle (EV) charging station management systems.
- Developed behavior-informed machine learning models to support operational decision-making, training and fine-tuning deep learning models in PyTorch to adapt to changing user patterns.
- Built cross-platform mobile applications with Flutter (iOS and Android), delivering model-driven features to end users in real time.
- Contributed to Python backend services within a cross-functional R&D team, ensuring compliance with data protection protocols across all phases of development.

Machine Learning Engineer Intern

May 2024 – Jun 2024

Teknology House

Adana, Türkiye

- Developed an object tracking and counting system for a production line using the DeepSort algorithm; trained ReID and detection models in PyTorch and unified them into a single inference pipeline.
- Created and annotated a custom dataset for object tracking and feature extraction tasks.

Software Developer Intern

Jul 2023 – Sep 2023

Arçelik

Istanbul, Türkiye | Hybrid

- Integrated an advanced data analysis dashboard into the AGV (Automated Guided Vehicle) Management System using C#, .NET Core, and Python.

Selected AI / Machine Learning Projects

Hierarchical Object Detection for Fine-Grained Species Classification (BSc Thesis)

- Built a layered hierarchical object detection model with MMDetection (Faster R-CNN, ResNet-50, FPN) to classify fish species under challenging underwater visibility conditions.
- Engineered data pipelines for the Fishnet Open Images Database (86,000+ images) and automated model training, more than doubling Bbox mAP over the baseline (0.102 → 0.220).

Computer Vision-Based Disease Detection in Abdominal CT — Teknofest Finalist

- Led development of a system detecting seven clinical conditions causing abdominal pain emergencies, using contrasted and non-contrasted CT series; finalist in the Teknofest Artificial Intelligence in Health Competition (2022).
- Designed and trained a custom architecture combining YOLO and ResNet for high-accuracy classification.

BIRADS Category and Breast Composition Prediction in Screening Mammography

- Fine-tuned a ResNet-based model on TÜSEB screening mammography data to classify BIRADS categories and breast composition.

UK Sponsor List — Tier 2 Visa Sponsorship Search Platform

- Designed, developed, and published a Web, Android, and iOS platform helping users find licensed Tier 2 visa sponsors in the UK, with advanced filtering, search, and favorites features.
- **Live:** iOS (App Store) | Android (Google Play)

Education

Gazi University

Master's Degree in Data Science

2026 – Present

GPA: 3.00/4.00

- **Relevant Coursework:** Predictive Modeling in Data Science, Advanced Data Mining, Machine Learning, Time Series Analysis.

Cukurova University

Bachelor's Degree in Computer Engineering

2019 – 2024

GPA: 3.08/4.00

Certifications

- TensorFlow Developer Certificate – *TensorFlow*
- DeepLearning.AI TensorFlow Developer Professional Certificate – *Coursera*
- Deep Learning Specialization – *Coursera*
- Introduction to Deep Learning with Keras – *BTK*
- Introduction to Data Science with R – *BTK*
- Data Analysis – *Global AI Hub*

Leadership & Achievements

- **Finalist, Teknofest Artificial Intelligence in Health Competition (2022)** — led the Medcom AI team that developed the abdominal CT disease detection system.
- **Project Team Lead, Huawei Student Developers (Cukurova University)** — designed and delivered an introductory software training program for 40–45 students and mentored teams entering competitions and projects.
- Active member of IEEE and the Community Volunteers Club during undergraduate studies.

References

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