

Samet Mert Dik

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EDUCATION

B.S. in Artificial Intelligence and Machine Learning

Kocaeli University

GPA: 3.24

09/2024 – Present

Kocaeli, Türkiye

B.S. in Information Systems Engineering

Kocaeli University

Double Major

09/2025 – Present

Kocaeli, Türkiye

PROJECTS

ScribbleMind 🔗

02/2026 – 05/2026

- Deployed a dual-model FastAPI web application that simultaneously transcribes handwriting and identifies the writer from a single user-uploaded image.
- Engineered a Convolutional Recurrent Neural Network (CRNN) using CTC loss, optimizing outputs with CTC beam search and a trigram spell-correction pass.
- Fine-tuned a ResNet-18 model across 5 distinct writer classes and built a custom 90th-percentile brightness preprocessing pipeline to remove shadows from raw photos.

Lung Cancer Classification Model

04/2026 – 05/2026

- Won 1st place (Science category) at KOUBAK'26 by developing a lung cancer classification model.
- Engineered a feature extraction pipeline using a pre-trained ResNet-50 architecture to convert tomographic images into numerical vectors.
- Trained multiple classifiers, achieving 89.5% test accuracy with XGBoost and >98% sensitivity for the "Normal" class.

LEADERSHIP EXPERIENCE

Kocaeli Anadolu Lisesi

06/2026

AI Workshop Instructor

- Designed and delivered an introductory artificial intelligence curriculum for high school students in the "Yenilikçi Sınıf" program.

Kocaeli University Student Research Congress (KOUBAK'26)

05/2026

Organizing Committee Member & Speaker

- Co-organized the university-wide scientific student research congress.
- Presented winning research on deep learning-based lung cancer classification.

SKILLS

Programming Languages

Python, SQL

Machine Learning & Data Science

PyTorch, TensorFlow, Keras, scikit-learn, OpenCV, pandas, NumPy

Developer Tools & Environments

Linux, Docker, Git

LANGUAGES

Turkish

Native

English

Fluent