ÖZGÜR ARISLIEL

Machine Learning / AI Engineer (New Graduate)

Istanbul, Turkey — Remote-friendly
ozgurarisliel@gmail.com — LinkedIn — GitHub

Profile

Motivated Electrical and Electronics Engineering graduate with a strong background in signal processing and machine learning. Experienced in developing end-to-end ML pipelines for biomedical signal analysis, with a research-focused approach and hands-on implementation in Python and MATLAB.

Education

B.Sc. in Electrical and Electronics Engineering
Istanbul Bilgi University *Date of Graduation: 2025*

Relevant Coursework: Machine Learning, Digital Signal Processing, Probability & Statistics, Data Structures, PCB Design

Undergraduate Thesis

Diagnosis Using the Chest Correlation Map Based on Tracheal Sound

- Designed a correlation-based feature extraction method from multi-channel respiratory sounds
- Generated correlation maps to capture spatial relationships between microphone channels
- Built classification models using Bayesian and SVM classifiers
- Evaluated performance using Leave-One-Out Cross-Validation (LOOCV)

Projects

Respiratory Sound Diagnosis using Machine Learning
GitHub Repository

- Implemented signal preprocessing including normalization and band-pass filtering
- Extracted interpretable correlation-based features from multi-microphone data
- Developed modular Python code for preprocessing, feature extraction, and modeling
- Achieved robust evaluation using LOOCV on a limited biomedical dataset

Technical Skills

Programming: Python, MATLAB, C, Java
Machine Learning: Classification, Feature Engineering, Model Evaluation, Cross-Validation
Signal Processing: Filtering, Correlation Analysis, Time-Series Analysis
Tools: NumPy, SciPy, scikit-learn, Matplotlib, GitHub, LaTeX

Research Interests

Biomedical Signal Processing, Machine Learning for Healthcare, Interpretable AI