



Vedat Koylahisar

Junior Software Engineer (AI/ML)

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Education

BS **Kocaeli University**, Computer Engineering Kocaeli, Turkey
Sept 2021 – Sept 2026

Experience

DyrobX, Software Engineering Intern Kocaeli, Turkey
• Built touch HMI interfaces on ESP32-S3 using LVGL, integrating real-time system controls.
• Implemented multi-tab menus, PID tuning, live sensor telemetry and mode management. July 2026 – Aug 2026

Keep Games, Game Development Intern Istanbul, Turkey
• Implemented gameplay mechanics and systems in Unity (C#). Sept 2024 – Oct 2024

Bimser Çözüm, Software Engineering Intern Kocaeli, Turkey
• Contributed to a low-code process management platform using .NET Core and SQL.
• Optimized slow backend SQL queries in process management modules. July 2024 – Sept 2024

Projects

EEG-Based Emotion Recognition (TÜBİTAK 2209-A) Oct 2024 – June 2025
• TÜBİTAK 2209-A funded systematic review of 136 papers on EEG emotion recognition.
• Built a hybrid 1D CNN-LSTM on DREAMER (EEG + ECG) for valence/arousal classification.
• Preprocessing: 4–45 Hz band-pass filtering, resampling, Min-Max normalization, padding.

Personal Portfolio Website Aug 2025 – Dec 2025
• Integrated a multilingual AI assistant using open-source LLMs with custom tool calling.
• Built the platform with a Flask REST API backend and a React frontend.

Kaggle Notebooks

- 15 public ML notebooks (regularized regression, logistic regression, trees, random forest, SVM, Naive Bayes, EDA), forked 160+ times.

MicroCommerce — Microservices Platform Mar 2026 – present
• Built 5 .NET 8 microservices with Ocelot, RabbitMQ, JWT, Docker and CI-run integration tests.

Maxxing — Social Habit Tracking App Oct 2026 – present
• Full-stack app: ASP.NET Core (.NET 10) + PostgreSQL API with a React Native (Expo) client.

Skills

ML & Data: Python, TensorFlow, Scikit-learn, Pandas, NumPy, OpenCV, Matplotlib

ML Methods: Deep learning (CNN, LSTM), classical ML (regression, tree-based models, SVM), LLM integration, tool calling

Backend: Flask, ASP.NET Core Web API, C#, REST, PostgreSQL, Redis, MongoDB

DevOps & Tools: Docker, GitHub Actions, Git, RabbitMQ

Languages: Turkish (Native), English (Professional Working Proficiency)