

Tan Gezerman

Artificial Intelligence Engineer

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EDUCATION

Bahçeşehir University

Bachelor of Science in Artificial Intelligence Engineering (English)

Istanbul, Turkey

September 2020 - July 2024

EXPERIENCE

AI Engineering Intern

Blusense AI

March 2025 – June 2025

Vancouver, BC (Remote)

- Trained **YOLO** family of models for acne type detection (nodules, papules, dark spots etc.) achieving **mAP50: 85.5%**, **precision: 84.9%**, **recall: 81.3%**.
- Engineered precise measurement system using image metadata for MRD1-2 and EAR values with **millimeter accuracy** for droopy eyelid detection.
- Designed and deployed Flask-based **REST API** for droopy eyelid detection with Swagger documentation.

Turkish Data Annotator

Outlier AI

Nov. 2024 – Sep. 2025

Remote

- Wrote LLM **prompts (including undergraduate-level math problems)** to improve Turkish localization during **RLHF**.
- Assessed and revised model responses to meet quality standards.

Intern

Mitsubishi Electric

July 2023 – Aug. 2023

Umraniye, İstanbul

- Developed demo using **OpenCV** and **Melfa Basic** for server-robot communication to solve mazes on printed paper.
- Gained hands-on experience with industrial robots and contributed to company documentation.

PROJECTS

Tissue Mask Generation with VGG-16 U-Net | PyTorch, Gradio

Link

- Implemented VGG-16 U-Net with **Imagenet** weights for histopathology patch-based segmentation.
- Achieved **96% pixel accuracy** and **95% IoU**.
- Released Hugging Face Spaces **demo** and dataset (**290 GB+ images**).
- Optimized patch creation using multiprocessing (**50% faster**).

Loan Repayment Prediction | Random Forest, Decision Tree, XGBoost

Link

- Performed exploratory data analysis, preprocessing, and hyperparameter optimization with MLflow.
- Compared algorithms achieving best result: **ROC AUC 93.7%, Accuracy 86.9%, Precision 86.2%**.
- Deployed on test server with REST API integration.

Chatbot for Radiology Students (Llama 2) | PEFT, RAG, Streamlit, Docker, LangChain

- Trained quantized Llama 2 with **LoRA** for radiology domain.
- Implemented **RAG** with ChromaDB and deployed Streamlit UI.
- Containerized and deployed on Hugging Face Spaces using **Docker**.

TECHNICAL SKILLS

Languages: Turkish (Native), English (Professional)

Programming: Python, R, C++

Libraries/Frameworks: PyTorch, TensorFlow, OpenCV, Scikit-learn, Numpy, Pandas, Apache Airflow, LangChain, Matplotlib, Mediapipe, Polars

Skills: Exploratory Data Analysis, Transfer Learning, Machine Learning, SQL, MongoDB, Prompt Engineering, ETL Pipelines, OOP, ComfyUI, Automatic 1111

Certifications: 2025 YDS-2-English 88.7500/100, Google Data Analytics Professional, Datacamp Biomedical Image Analysis in Python, IBM Machine Learning with Python