



Selman Dedeakayoğulları

Jr. AI Engineer

📍 Eskişehir/Türkiye ✉ selmandedeakayogullari@gmail.com ☎ +90 542 538 95 48  Selman Dedeakayoğulları
 SelmanDedeakay  selmandedeakay.github.io  Selman Dedeakayoğulları  Selman Dedeakayoğulları

PROFILE


Known for combining technical expertise with a positive and engaging team spirit, I work in the field of artificial intelligence and software development, particularly focusing on large language models (LLMs) and computer vision.


I enjoy generating original ideas and implementing them in the most practical and effective way.

I believe that collaboration amplifies success, and I always strive to elevate both performance and team morale in every project I contribute to.


EDUCATION


Eskişehir Technical University, Computer Engineering  2021 – 2025
Graduated with GPA 3.15/4.0. Eskişehir, Turkey

Vorarlberg University of Applied Sciences, Exchange Semester  2023
Studied AI-focused courses in an international setting. Voluntarily attended a Master's level **Computer Vision** course alongside MSc students to deepen technical knowledge. Dornbirn, Austria

University Of Turkish Aeronautical Association, Computer Engineering  2020 – 2021
Transferred after first year with GPA 3.43 Ankara, Turkey
Member of **IEEE UTAA Computer Society**
Member of **UTAA Google Developer Students Club**

WORK EXPERIENCE

AI Engineer Intern, Arena  Dec 2023 – Mar 2025
Developed and maintained chatbots for enterprise clients in Turkey and abroad using **Druid AI**. Delivered PoCs and provided ongoing support. Built LLM-based solutions using **LLaMA**, **GPT-4**, **GPT-4o**, and **GPT-4 Vision**.

Software Engineering Intern, Turkish Aerospace Industries  Nov 2022 – Jan 2023
Contributed to backend development for various internal modules. Gained experience in large-scale systems. Left early due to Erasmus study abroad program.

Computer Vision Intern, Visea Innovative  Jul 2022 – Aug 2022
Built classification and segmentation models using **PyTorch** and **TensorFlow**. Worked with diverse architectures including **ResNet**, **U-Net**, **MobileNet**, **EfficientNet**, and **VGG**.

SKILLS

Computer Vision

OpenCV, PyTorch, Numpy, Tensorflow, Keras, CNNs, YOLO, Stable Diffusion Models, Vision Language Models

Natural Language Processing

HuggingFace Transformers, Langchain, LangGraph, Ollama, Smolagents, Prompt Engineering, Retrieval Augmented Generation, Few-shot Prompting, , Gemini API ,OpenAI API, RNNs

Data Analysis & Visualization

Matplotlib, Numpy, Pandas, Seaborn, Scikit-learn, SQL

Software Engineering

Python, Java, Git, Flask, FastAPI, MongoDB, SQLite, Low Code Development, Selenium, Streamlit, Gradio

PROJECTS

Agentic Portfolio Chatbot, Agents&Gemini API



Developed an AI-powered portfolio chatbot using Google Gemini and Streamlit, which is fully functional in my portfolio website live.

The system answers questions about my background, projects, and skills, and allows direct contact via secure email. Integrated a recruiter tool that analyzes any job description and reports my compatibility percentage, highlighting matched skills and experience.

Social Media Analysis for Earthquake Victim Reports, *Large Language Models* [↗](#)

Developed a multimodal AI system combining LLM-based information extraction from social media with drone-based visual verification. Achieved high accuracy in identifying urgent needs, locations, and structural damage to support real-time disaster response.

Gendiary: New-Gen Social Media via Stable Diffusion, *Stable Diffusion* [↗](#)

A Social Media Application using Stable Diffusion for Creating Content, for Software Engineering Course Project

Image Captioning Project, *Vision Language Models*

Fine tuned several VLM's and optimized the pipelines for an AI competition.

Face Recognition Application, *PyTorch* [↗](#)

MT-CNN based Face Recognition application. Also published an article about it on Medium account.

Media Control with Gesture Recognition, *Scikit-learn* [↗](#)

Machine Learning Course Term Project using MediaPipe and custom algorithms to detect different gestures.

City Sounds Classification, *TensorFlow* [↗](#)

Global AI Hub Deep Learning Bootcamp Project.

Sound spectrograms from UrbanSound8K dataset used for classification.

REFERENCES

Alperen Enes BAYAR, *AI Research Engineer, HAVELSAN*

enesalperenbayar@gmail.com

Abdullatif BABA, *Associate Professor, Kuwait College of Science and Technology*

ababa@thk.edu.tr

Mehmet KOÇ, *Associate Professor, Eskişehir Technical University*

mehmetkoc@eskisehir.edu.tr

Sema CANDEMİR, *Associate Professor, Eskişehir Technical University*

semacandemir@eskisehir.edu.tr

ORGANIZATIONS

IEEE Computer Society Turkey Chapter, *Central Anatolia Coordinator*

Sep 2021 – Sep 2022

As the coordinator, I was responsible for the IEEE CS chairpersons of the universities in the Central Anatolia region.

AWARDS

TEKNOFEST T3 AI Hackathon 2024 Finalist,

T3 (Türkiye Technology Team)

Selected among 200+ teams to develop an LLM-based project within 48 hours at the T3 AI Hackathon.

OBSS Code Master 2022, *OBSS*

Ranked 1st among university participants in an algorithm-based problem-solving competition

EESTech AI Solutions Challenge, *EESTEC LC Eskişehir*

Created sentimental analysis solution in an hackathon within 4 hours. Achieved 2nd Place

LANGUAGES

English – B2 | **German** – A1 | **Turkish**