Erdoğan Yasin Peker

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Summary

As a Computer Engineering student, I aim to specialize in the field of Artificial Intelligence. My journey into AI began with Python and has now progressed to a level where I can develop projects in areas such as Reinforcement Learning, Deep Learning, Machine Learning, Speech Processing, and Computer Vision. I have more than 20 projects and am proficient in Python, C, C++ and Java programming languages. I participated in two different categories in the Teknofest competition organized on a large scale in Turkey and led the team as a team captain in the field of artificial intelligence in health. I also work as a project manager in a community and do my best to improve myself and the company I work for.

Core Skills: Python, C, C++, Java, Data Science, Data Analysis, Machine Learning, Deep Learning, Reinforcement Learning, Team Leadership, Speech Processing, Image Processing, Natural Language Processing, Project Management, Big Data, Generative Artificial Intelligence.

Education

Bachelor of Science in Computer Engineering ***September 2022 -September 2026***
Faculty of Engineering, Harran University
Bachelor of Science in Computer Engineering with a focus on Software Development and Artificial Intelligence. Developed various software applications, applied machine learning techniques, and conducted research on data analysis and processing. Proficient in programming languages such as Python, C, C++, and Java.

Bachelor of Science in Computer Engineering ***October 2025 -March 2026***
Faculty of Computer Science, AGH University of Krakow, Poland
As a Computer Engineering student at Harran University, I was accepted to AGH University of Krakow within the scope of the Erasmus+ program. I plan to take courses in Artificial Intelligence, Computer Vision, System Programming, and Deep Learning.

Projects

Real-Time Speech and Emotion Analysis Web Application

- The aim of this project is to convert microphone input into text in real-time and perform emotion analysis based on the transcribed text.
- The **Whisper** model was used for speech recognition, and pretrained **NLP** models were employed for emotion classification.
- The application was developed as a user-friendly, real-time processing system with a **Flask- based web interface**.
- Technologies used: **Python**, **Flask**, **HTML**/**CSS**, **JavaScript**, Whisper, **PyTorch**, TensorFlow, WebSocket architecture.
- The project is highly applicable in AI-based voice interaction systems and fields such as **call center analytics**, delivering high accuracy and efficiency.

Predicting Home Prices in India with Machine and Deep Learning

- The aim of the project is to use the most commonly used machine learning and deep learning methods together with data that is scattered and difficult to model.
- The necessary datasets were collected and the data was cleaned by going through a long data processing process.
- Various libraries such as **TensorFlow and SciKit-Learn** were used in the project.
- The project was completed with **93 - 94%** accuracy rate and MSE as low as 0.000002

Please note that many similar projects are available on my GitHub profile.

Experience

Team Leader *May 2024 - September 2024*

Urfa, Turkey

- I was a team leader in a project that used artificial intelligence and image processing technologies for cancer detection in the healthcare sector.
- I developed a model that detects cancer in medical images using deep learning algorithms.
- I carried out the project planning and management processes by distributing the tasks of the team members.
- Within the scope of the project, I applied data preprocessing and data augmentation techniques to increase the accuracy of the model.
- At each stage of the project, I shared progress and results by preparing technical documentation and making presentations.

AI Engineer Intern, Bluesense AI
Istanbul, Turkey **June 2025 – August 2025**

- Actively contributed to an international project focused on real-time mobile dermatological analysis systems.
- Developed models using state-of-the-art architectures such as **EfficientNetV2**, **MobileNetV3**, **Swin-ViT**, and **MobileViT** to detect skin diseases and surface features (e.g., **moisture**, **radiance**).
- Applied various **ensemble** methods such as **hard voting** and **soft voting** to compare and improve model performance.
- Personally, handled the data collection and augmentation process, sourcing open datasets from platforms like **Roboflow** and compiling **ethically-compliant clinical data.**
- Actively contributed to transforming the research outcomes into a **scientific publication** prepared for submission to **IEEE** and **Elsevier** journals.

AI Engineer Intern – eCloud Software Technologies
Remote (Urfa, Turkey) **June 2025 – August 2025**

- Developed a **domain-specific LLM (Large Language Model)** capable of understanding **clinical texts** and responding to user queries in the medical field.
- Fine-tuned **open-source LLMs** by customizing them on **medical terminology**, **diagnoses**, **symptoms**, and **treatment protocols**.
- Independently prepared the training data by sourcing from public datasets and applying advanced **preprocessing** steps (cleaning, filtering, annotation).
- Integrated the trained LLM into a **web platform** via a **RESTful API**, enabling **real-time interaction** with users.
- Single-handedly implemented the full system pipeline, including **model deployment**, **API services**, and **frontend integration**.

CERTIFICATIONS

- Google Project Management | Coursera | May 2025
- Google Advanced Data Analytics | Coursera | June 2025
- Entrepreneurship | Google Academy | May 2025
- Web Application Development | Google Academy | May 2025
- Data Science, and Artificial Intelligence | Google Academy | May 2025
- Python Programming | Udemy | May 2023
- Data Science | Udemy | June 2023
- Data Visualization | Udemy | June 2023
- Machine Learning | Udemy | July 2023
- Deep Learning | Udemy | August 2023
- General Artificial Intelligence | Udemy | May 2024
- Image Processing | Udemy | August 2024
- Feature Engineering | T.C. Presidency Digital Transformation Office | May 2024
- Data Preprocessing | T.C. Presidency Digital Transformation Office | March 2024
- Mass Detection in Mammography Images | T.C. Presidency Digital Transformation Office | March 2024