

Cemal Eren Karagul



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SKILLS

Programming Languages

Python, JavaScript, R, SQL

Frameworks & Libraries

React.js, React Native, TensorFlow, Keras, Scikit-Learn, PySpark

Data & Machine Learning

Data Cleaning, Data Scraping, Model Training, Deep Learning, Collaborative Filtering, Data Visualization

Tools & Platforms

Git, Jupyter Notebook, PyCharm, VS Code, Google Colab

Soft Skills

Analytical Thinking, Problem Solving, Adaptability, Teamwork, Effective Communication, Time Management

LANGUAGES

English ● ● ● ● ●

Spanish ● ● ● ● ●

CERTIFICATES

- Big Data Training Set from Scratch
- National Technology Academy Artificial Intelligence Training Program

ABOUT ME

I graduated **with third honors** from Aydın Adnan Menderes University, Department of English Computer Engineering. During my studies, I completed coursework in various computer science disciplines, with a strong focus on Artificial Intelligence, Software Development, Machine Learning, Data Science, and Deep Learning. In addition, I actively work on web and mobile development projects outside of academia.

I am a disciplined, hardworking, and communicative individual who values teamwork and continuous self-improvement. I stay updated with the latest advancements in my fields of interest, quickly adapt to new technologies, and consistently strive to enhance my skills and knowledge.

WORK EXPERIENCE

Kale R&D

Intern

08/2024 – 09/2024

I work as a software engineer intern at Kale R&D company, which belongs to Kale Group. I work on turbojet engines and ECU.

STM

Intern

07/2023 – 08/2023

I completed my summer internship program as a Computer Vision Engineer at the Artificial Intelligence department of STM company in Ankara. I actively participated in the projects being developed by the company. I joined fieldwork with the produced UAVs and drones, and gained technical knowledge about the operation systems of these vehicles.

EDUCATION

Adnan Menderes University, Aydin

Bachelor's Degree

08/2019 – 10/2024

Computer Science and Engineering (100% English) - **3.61 GPA**

Bachelor's Thesis written on Hyperparameter Optimization in Machine Learning Models.

Anadolu University, Eskisehir

Bachelor's Degree

09/2021 – 06/2025

Management Information Systems - 3.01 GPA

PROJECTS

Predicting Football Player Value

Collected an original dataset using **Beautiful Soup** to scrape player data, then cleaned and preprocessed it with **Pandas** and **NumPy**. Built a machine learning model using **Scikit-Learn** and **Bayesian Optimization**, visualized insights with **Matplotlib**, and achieved 98% accuracy in predicting player market values.

Identify Bangladeshi Medicinal Plants

Used **TensorFlow**, **Keras**, and **OpenCV** to classify plant species from leaf images with **CNN**, **VGG**, **Inception**, and **DenseNet** models. Applied image augmentation for improved accuracy.

Movie Recommendation Engine

Developed a movie recommender system using **PySpark** and **ALS** collaborative filtering. Processed rating data with **Spark DataFrames** for personalized suggestions.

PDF Automation Software

Created a **Python** tool with **PyPDF2**, **ReportLab**, and **Tkinter** to auto-fill and split multi-page PDFs using a single input, streamlining document workflows.

Travel Planner Mobile Application based on AI

Built a mobile app with **React Native** and **Expo** that generates AI-based travel plans based on user preferences. Integrated dynamic UI with **JavaScript**.

Personal Portfolio Website

Developed a responsive site using **React.js**, **Tailwind CSS**, and **Framer Motion**. Added dark mode and deployed via **GitHub Pages** to showcase my work.