ÇAĞLAR ÇAKMAK

+90 543 677 18 63 · caglarcakmak0@icloud.com ·
Türkiye ,İzmir , Balçova
Linkedin, Github

Data Scientist- ML Developer

Passionate and innovative Software Developer with extensive experience in developing and deploying desktop applications and AI models for real-world applications. Possesses expertise in machine learning, deep learning, computer vision, and predictive modeling, complemented by hands-on project experience. Proficient in Python, C#, and SQL, with a proven track record of integrating AI models into web and mobile applications to deliver impactful solutions.

EXPERIENCE

Datakod Yazılım A.Ş. **06,2024-07,2024**
Machine Learning Intern

I collaborated on the development of an R&D project utilizing Ultralytics' YOLO algorithm for object detection.Deeply engaged with the complexities of project development, while learning directly. Working alongside the expert engineers at Datakod significantly enhanced my technical skills and provided a strong foundation for my career in AI and machine learning.

EDUCATION

EGE UNIVERSITY , Izmir ,Türkiye 2024
- *Computer Programming*

Global AI HUB
- *Machine Learning Bootcamp*

Stanford University
- *Supervised Machine Learning:Regression and Classification*
- *Advanced Learning Algorithm*

SKILLS

Matplotlib, Tensorflow, PyTorch, Seaborn, YOLO, Docker, My-SQL, C#, Python, Scikit-Learn, Numpy, Pandas, Flask, FastApi, Git, OpenCV

PROEJCTS

Vehicle Tracking System -- Aug 2024 - In Process
Mercedes-Benz Authorized Service
- Developing a system designed to **detect vehicle license plates and features in real-time using +30 cameras**. The system will leverage **YOLO algorithm** for image processing , **CRNN architecture for plate recognition** and data management, and it will feature a **user-friendly interface** to enable quick access for relevant departments. The goal of this system is to enhance operational efficiency and optimize vehicle tracking.

Football Analysis System Using YOLO Algorithm
- Developing a real-time football analysis system using YOLO for object detection, **tracking player positions, referee locations, ball possession percentages, mini radar- camera movement estimator , heatmap, player speeds and distances covered**. This system provides real-time performance metrics to support tactical decision-making and team strategy optimization during matches.

Face Recognition Application with CNN
- Developed a deep learning model using Convolutional Neural Networks (CNN) and transfer learning to classify celebrity faces with ***99% accuracy***. This model can be used in gallery applications and security systems for facial recognition.

AI-Powered Real Estate Data Analysis and Property Price Estimation with Integrated Web Platform
- Built a machine learning model with 97% accuracy to predict real estate prices in Bangalore, India. The model was developed using NumPy, Scikit-Learn, and Pandas for data preprocessing, and GridSearchCV for hyperparameter tuning, then deployed into a Flask-based web application.

Bank Customer Analysis Algorithm with ANN
- Developed an Artificial Neural Network (ANN) model ***with 96% accuracy*** to predict customer churn for banks. This model analyzes various customer parameters to improve customer retention strategies, applying ***Exploratory Data Analysis*** (EDA) and data preprocessing techniques.

YOLO-Based Market Shelf Product Detection, Classification, and Automated Stock Analysis
- Developed an object recognition model using YOLO algorithm as part of the company's R&D project, ***achieving an accuracy rate of 87%.*** This project significantly enhanced my expertise in object detection and provided valuable experience in teamwork and project management.

Celebrity Face Recognition Algorithm
- Developed and optimized a face recognition application using **TensorFlow** and **GridSearchCV**, achieving 80% accuracy for security systems. The model was integrated into a web application using **Flask**, showcasing my ability to apply machine learning models to real-world applications.

Plant Disease Detection Application
- It aims to develop an application that can diagnose diseases from tomato plant leaves using Deep Learning and React Native.
- The application aims to speed up disease diagnosis in the agricultural sector, increasing farmers' productivity.
- The model, developed with TensorFlow, utilizes Convolutional Neural Network (CNN) architecture

Independent University Database Project (Microsoft SQL)
- A comprehensive university database system was designed and developed using Microsoft SQL Server.
- The database includes extensive information related to the university, such as student records, faculty details, course information, and registration statistics.

Student Information System Desktop Application with C# -SQL
- Developed a C# and SQL-based desktop application that manages student information through teacher and student panels. The application also provides parent access to student data, and was designed with a user-friendly interface to ensure ease of use for various stakeholders.

- **References available upon request.**