# KEMAL KILIÇASLAN

## AI DEVELOPER


## CONTACT

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## SKILLS

- Python
- Machine Learning
  - scikit-learn
- Deep Learning
  - TensorFlow
  - PyTorch
- Computer Vision
  - OpenCV
- C++
- MATLAB
- Wolfram Mathematica
- PostgreSQL
- Front-end
  - HTML
  - CSS
    - Bootstrap
  - JavaScript

## PERSONAL INITIATIVES

- Kastamonu Üniversitesi Matematik & Bilim Topluluğu **(Founding President)**
- Türkiye Matematik Kulübü **(Member)**

## EDUCATION

- **KASTAMONU UNIVERSITY FACULTY OF SCIENCE AND LITERATURE MATHEMATICS**
  **2022 Graduate - Bachelor's Degree**

## EXPERIENCE

- **BİLGİ TEKNOLOJİLERİ VE İLETİŞİM KURUMU - AI TRAINER WITH PYTHON**
- **CALORIN - COMPUTER VISION DEVELOPER**

## PROJECTS

- **Face Detection and Person Recognition:** It is a face detection and person recognition project on photos, videos and snapshots using Haarcascade classifier algorithm.
- **Road Lane Lines Detection:** It is a project to detect lane lines on roads for autonomous vehicles in which artificial intelligence is actively involved.
- **Garbage Classification with Convolutional Neural Network (CNN):** Classification process using CNN for 6 different types of solid waste.
- **Vehicle Recognition with Instance Segmentation Training on a Custom Dataset:** It is a project to train the model with segmentation method on 20 randomly selected cars, pickups and trucks and to measure model success on 5 randomly selected cars, pickups and trucks.
- **Pose Detection with YOLOv8 using Wolfram Mathematica:** It is a pose detection project using the YOLOv8 model on the MS-COCO dataset.
- **Facial Expression Recognition:** Expression recognition project on randomly selected images on 7 different classes trained with efficientnet_b0 model using PyTorch on FER-2013 dataset.
- **Vehicle Speed Estimation:** It is an object tracking and speed calculation application for estimating the speed of vehicles. The YOLO model is used to detect objects within the video and these detections are used for the confidence threshold and for limiting objects within a given region.
- **Data Visualization of Turkey Population with Plotly**: It is a data visualization project on the map with line, bar, stack bar, pie, donut charts and choropleth method with male, female and total population data from 1927 to 2023 taken from TURKSTAT using Plotly and Folium libraries.
- **Recognition of Traffic Signs Blurring of License Plates and Person:** The project that can detect traffic signs with a confidence threshold of 80% with the custom models I trained using YOLOv11 on the custom dataset to detect vehicle license plates in Turkey and also frequently encountered traffic signs in the city, and also blur license plates and person for the protection of personal data.
- **Safety Lane Violation Detection:** This computer vision project, which uses YOLOv12 for object detection, detects, tracks, and counts vehicles that cross a specific line within a user-defined ROI and violate the emergency lane using the OpenCV library.

## CERTIFICATES

- Machine Learning Specialization **Stanford University & DeepLearningAI**
- Deep Learning Specialization **DeepLearningAI**
- Mastering Programming with MATLAB **Vanderbilt University**
- Version Control **Meta**
- Convolutional Neural Networks in TensorFlow **DeepLearningAI**
- System Engineering **MathWorks**
- Mathematics for Machine Learning Specialization **DeepLearningAI**
- Self-Driving Cars Specialization **University of Toronto**