Reza Tanakizadeh

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mertz1999 | Online CV

PROFILE

Two years immersed in machine learning and computer vision, tackling advanced challenges in industry and academia. Proficient in **Python**, **PyTorch**, **Scikit-Learn**, **Pandas**, **Numpy**, alongside visualization tools like **Streamlit**, **Matplotlib**, and **Seaborn**. Familiar with deploying solutions using **Linux**, **FastAPI** and other key tools.

PROFESSIONAL EXPERIENCE

Computer vision Enginner (Remote) Sep 2022 – present | Australia, Sydney
DeepMeds
Top Achievements/Task:
- Gathering and training large-scale image based datasets for object-detection, image-segmentation and classification problems with cutting edge models.
- Using Generative models in medical image
- Image-processing solutions for running some algorithms in real-time.
- Training models for time-series data like EEG signals.

Computer Vision Engineer + Internship Jan 2022 – Jun 2022 | Terhan, Iran
Nove
Top Achievements/Tasks:
- Using Image processing method (OpenCV) to to solve template matching problem and creating new template matching for more accuracy .
- Satellite image processing to extract information.
- learning to work with pre-trained yolo models and segmentation problems.

Teaching Assistant Dec 2020 – Apr 2021 | Tehran, Iran
Iran Broadcasting university
- Digital Electronics Teaching Assistant (Winter2020)

OTHER PROJECTS

Volleyball video ball detection and make 3D trajectory
We used the TrackNet model and modified and train it with gethered data. For the I used 3D computer vision methods and algorithms to convert 2D points into 3D points.
Ball detectio model (TrackNet) and 3D trajectory mapping

Depth estimation based on car and it's lights positions
This project was an implementation of (A New Approach To Estimate Depth Of Cars Using A Monocular Image) paper.

Macular edema segmentation with DeepLab model
The DeepLab model was implemented and trained on a gathered dataset, achieving an accuracy of 87%.

AWARDS

1`st place in the Rahneshan competitions Mar 2022
Iran National Elites Foundation
Design a DOA estimation technique based on deep-learning models.This work was done by a team of 4 memeber that each member worked on an specific part, including deep learning implemetation, Simulink model and design antenna.

CERTIFICATES

- Elementary Data Science
- Self-Driving Car Specialization (Coursera)
- Ai for Medicine (Coursera)
- Machine learning (Quera)
- Deep Learning Specialization (Coursera)

EDUCATION

Bachelor in Electrical engineeing Sep 2017 – Sep 2021 | Tehran, Iran
Iran Broadcasting University