

Mohammad Hasan Zahweh

Computer and Communication Engineer

Fresh graduate computer and communication engineer. Experienced in computer vision, seeking a job opportunity in this domain

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WORK EXPERIENCE

Computer Vision Engineer GEOAI Team - CNRS-Lebanon

07/2022 - Present Remote

The GEOAI Team is a research team that works on Remote Sensing using Computer Vision Deep Learning approaches

Achievements/Tasks

- Create a Transformer based segmentation model for wheat segmentation
- Created the first cleaned dataset for wheat Segmentation
- Our work produced a paper to be published in ECRS 2023
- Used different Parameter Efficient Fine Tuning (PEFT) techniques to improve the results

Contact : <https://geogroup.ai/>

PERSONAL PROJECTS

Using PEFT for Remote Sensing Crop Monitoring

- The aim of this project is to find all the wheat fields in Bekaa using Sentinel-2 Satellite image.
- Produced an F1score of 85%.
- Used State of the art model in the field of crop monitoring "TSViT".
- Used Parameter Efficient Fine Tuning (PEFT) to Enhance the model results while decreasing the computational expenses
- Produce a paper published in ECRS 2023

PEFT-int SAM

- This project worked on segmentation of the WHU building dataset
- Uses Segment Anything Model (SAM) image encoder as a base
- Parameter Efficient Fine Tuning (PEFT) Techniques to reduce the computational expences

Image Search Engine

- An image search engine that search for the most similar image semantically using CLIP
- can be prompted an image or text
- Implemented using pytorch, Django, and FAISS

Lung Tumor Segmentation

- The Aim of this project is the detection and segmentation of Lung Tumors using a U-net CNN model
- Implemented Using Keras

EDUCATION

Electrical and Computer Engineering Lebanese University-Faculty of Engineering

09/2018 - 09/2023 Al-Hadath

Courses

- Data Analysis
- OOP
- Data Base

SKILLS

Python	●	●	●	●	●
pytorch	●	●	●	●	○
ViTs	●	●	●	○	○
CNNs	●	●	●	○	○
Trends Awareness	●	●	●	○	○
Deep Learning	●	●	●	●	○
keras	●	●	○	○	○
SQL	●	●	●	○	○
PEFT	●	●	●	○	○
QGIS	●	●	○	○	○
LLM	●	●	○	○	○
C++	●	●	○	○	○
Java	●	●	●	○	○

CLUBS

ML community-Faculty of Engineering

This is a new community that is create to learn and share info about the latest trends in ML

Competitive Programming

This club aims to prepare participants for the LCPC competition by practicing basic problem solving programing skills.

LANGUAGES

Arabic
Native or Bilingual Proficiency

English
Full Professional Proficiency