Last Updated on 4/9/2024

Kompitselidis Dimos

komdimos@gmail.com | LinkedIn | GitHub | Website Portfolio

EDUCATION

Aristotle University
UNDERGRADUATE MASTER IN ELECTRICAL AND COMPUTER ENGINEERING
Sep 2019 | Thessaloniki, Greece

COURSEWORK

Undergraduate

• Artificial Intelligence A-Z 2023: Build 5 AI (incl. ChatGPT) | Udemy
• Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus [2023] | Udemy

VOLUNTEERING

Webmaster

• Managed ESN auth and ESN Thessaloniki sites.
• Managed Google Admin platform and implemented changes that automated organizational processes across various functions.

AWARDS

2018 National
Kangaroo math contest results
2013 National
1st Physics Competition in Greece+

HACKATHON

• IEEEXtreme 16.0 • NASA Space Apps Challenge • Open Innovation Competition Urban Mobility (**1rst price**)

SKILLS

Big Projects:
• Python • KERAS • Pytorch
• Machine Learning • Data Structures
• GitHub • Neural Networks
• TensorFlow • Data Analysis
Smaller Projects:
• Docker • MATLAB • Reinforcement Learning • Linux • C • C++
• Agile Software Development

WORK

D-cube Immersive Solutions | Ai Research Intern

Mar 2024 – May 2024 | Greece, Thessaloniki

- **Enhanced YOLOv8 Framework**: Integrated a modified YOLOv8 framework with a Detail-Sensitive Path Aggregation Network and incorporate custom changes to the architecture that increased the accuracy of Yolo by **3%** and **15%** in certain classes in **defect detection.**
- **Synthetic Data Generation**: Utilized Generative Adversarial Networks (GANs) to create synthetic datasets for training, enhancing model performance without large original datasets or high resolution.
- **Dual-Stream Architecture**: Designed and implemented a dual-stream architecture incorporate temporal context for motion detection, enhancing the capability to detect moving objects.

YouTube | Self employed

Jul 2023 – Oct 2023 | Remote

- **Achieved remarkable growth:** Grew the YouTube channel to 8 million views and 30,000 subscribers within three months.
- **Script Generation:** Utilized advanced prompt engineering with ChatGPT to create compelling and informative history video scripts.
- **Topic Identification:** Employed a YouTube crawler to identify viral topics, ensuring content relevance and viewer engagement.
- **Visual Content Creation:** Generated high-quality images using AI-driven software and prompt engineering techniques.

COLLEGE PROJECTS

Neural-networks classification | PANDAS, TENSORFLOW

- Created a neural network model to categorize the world's billionaires by wealth bracket and origin.
- Achieved 75% accuracy in wealth classification and 82.29% in distinguishing self-made versus inherited wealth through data preprocessing and customized weights.

Drug-Classification | TENSORFLOW, KERAS, PANDAS

- Developed various machine learning models to recommend appropriate drugs based on patient metrics.
- Highlighted an RBFN from scratch and a customized SVM with over 99% accuracy through data preprocessing, PCA, cross-validation, and comparative analysis.

Ai playing games | PYTORCH

- Developed AI agents to play classic games like Pac-Man, Kung Fu, and Lunar Landing using reinforcement learning.
- Applied Deep Convolutional Q-Learning, Asynchronous Advantage Actor-Critic (A3C), and Deep Q-Learning, resulting in AI agents capable of strategic gameplay.