Eleftherios Charteros

MSc Graduate in Computer Science

⌂ harteros.github.io | ⌗ harteros | in lefteris-harteros

Education

Athens University of Economics and Business *Athens, Greece*
Master of Science in Computer Science and Informatics, GPA: 9.77/10 (Excellent) *Oct 2019 - Oct 2020*

- Specialization in Artificial Intelligence/Machine Learning and Information Systems.

Athens University of Economics and Business *Athens, Greece*
4-year Bachelor of Science in Computer Science and Informatics, GPA: 8.88/10 (Excellent) *Oct 2015 - Jun 2019*

- Specialization in Artificial Intelligence/Machine Learning, Databases and Knowledge Management and Information Systems and Information Security.

Experience

Software Engineer *Rhodes, Greece*
Greek Army *Nov 2020 - Aug 2021*

- Reduced business complexity and automated operations for the Rhodes Officers Club by developing an online ordering and booking management system.

Research Assistant *Athens, Greece*
Athens University of Economics and Business *Oct 2019 - Oct 2020*

- Developed a novel solution for model training in Federated Learning which achieved up to 5% higher accuracy on Non-IID data on early communication rounds by proposing a layer-wise regularization to the loss function.

Huawei's Seeds for the Future *Beijing and Shenzhen, China*
Scholarship Program *Nov 2018*

- Selected as one of 11 students from all Greek engineering and technology universities based on academic performance for a 2-week study trip with cultural experiences and intensive training concerning 5G, the Internet of Things and Artificial Intelligence.

Research and Publications

Athens University of Economics and Business *Athens, Greece*
Improving accuracy and personalization in Federated Learning *Oct 2020*

- MSc Thesis.

Athens University of Economics and Business *Athens, Greece*
Edge Computing for Having an Edge on Cancer Treatment: a Mobile App for Breast Image Analysis *Feb 2020*

- Publication at IEEE, IoT-Health workshop.

Honors and Awards

John Kavouras Award *Nov 2017*

- Award from Athens University of Economics and Business for highest grade in the subjects of "Computer Systems Organization" and "Operating Systems".

Skills

Languages

Python, Java, Javascript, Typescript, HTML, CSS

Software & Tools

Pytorch, Keras, Tensorflow, Android Studio, Github, React, Angular, Firebase

Soft Skills

Goal oriented, Problem solving, Organization and time management, Adaptability and flexibility

Projects

For more projects and details see: https://github.com/harteros

Food Ordering and Room Reservation System with Angular
2021

- Web application with Angular and Firebase for food orders, haircut reservations and booking system for Rhodes Greek Army Officers Club (lethrodou.gr)

Sentiment Analysis with Neural Networks
2020

- Sentiment analysis with Multilayer Perceptrons, Recurrent Neural Networks and Stacked Convolutional Neural Networks on the Twitter Sentiment Analysis Dataset.

Image Classification with Convolutional Neural Networks
2020

- Experiments with multiple Convolutional Neural Network architectures and variants written in Tensorflow for classifying Fahsion-MNIST images.

Air Traffic Classification
2019

- A feature engineering and machine learning task for classifying the number of passengers in flights.

Multilayer Perceptron, Expectation Maximization Algorithms
2019

- A simple Multilayer Perceptron written from scratch in Python for classifying MNIST and CIFAR-10 datasets.
- The Expectation-Maximization algorithm written from scratch in Python for image compression and re-construction.

KokSotiriou
2018

- A theoretical training Android application for prospective drivers.

Collaborative Filtering Recommendation System with Android Application
2018

- A recommendation system that suggests to its users the best points of interest based on their check-ins.

A-Star, Naive Bayes, ID3, AdaBoost Algorithms
2018

- Machine Learning algorithms written from scratch in Java.

Simple Linux Shell
2017

- A simple linux shell in C supporting commands with arguments, capable of performing I/O redirections and using multiple pipes.

Languages

Greek

Mother Tongue

Hungarian

Mother Tongue

English
2013

Certificate of Proficiency in English, University of Michigan.