Eleftherios Charteros

Data Scientist

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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

Data Scientist *Athens, Greece*
PwC Greece *October 2021 - Present*

- Built a time series forecasting model for Covid-19 new hospitalizations prediction with LSTMs used for decision making during the pandemic.
- Set up a Dockerized system for monitoring and analyzing multiple applications and receiving business-critical alerts about their performance and availability.
- Performed gap analysis between databases and provisioned resolution steps for major insurance company.

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.

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, R, Java, Javascript, Typescript, HTML, CSS

Software & Tools

Pytorch, Keras, Tensorflow, Github, React, Firebase, Azure DevOps

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.

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.

Languages

Greek

Mother Tongue

Hungarian

Mother Tongue

English *2013*

Certificate of Proficiency in English, University of Michigan.