

Eleftherios Charteros

SOFTWARE ENGINEER - DATA SCIENTIST

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Experience

Data Scientist

PWC GREECE

Athens, Greece

October 2021 - Present

- Developed a full-stack web app with NextJS and Django Rest Framework for a Greek Public Service.
- Developed a proof-of-concept BERT-based Chatbot for question-answering in the banking domain.
- 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 a major insurance company.

Software Engineer

GREEK ARMY

Rhodes, Greece

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 UNIVERSITY OF ECONOMICS AND BUSINESS

Athens, Greece

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.

Education

Athens University of Economics and Business

MASTER OF SCIENCE IN COMPUTER SCIENCE AND INFORMATICS, GPA: 9.77/10 (EXCELLENT)

Athens, Greece

Oct 2019 - Oct 2020

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

Athens University of Economics and Business

4-YEAR BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND INFORMATICS, GPA: 8.88/10 (EXCELLENT)

Athens, Greece

Oct 2015 - Jun 2019

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

Certificates

Microsoft

Azure Fundamentals, Azure AI Fundamentals, Azure Data Scientist Associate

Research and Publications

Athens University of Economics and Business

IMPROVING ACCURACY AND PERSONALIZATION IN FEDERATED LEARNING

Athens, Greece

Oct 2020

- MSc Thesis.

Athens University of Economics and Business

EDGE COMPUTING FOR HAVING AN EDGE ON CANCER TREATMENT: A MOBILE APP FOR BREAST IMAGE ANALYSIS

Athens, Greece

Feb 2020

- Publication at IEEE, IoT-Health workshop.

Skills

Languages

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

Software & Tools

Pytorch, Keras, Tensorflow, Flask, Django, React, Docker, Github, 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 Fashion-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 reconstruction.

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, Hungarian

Mother Tongue

English

2013

Certificate of Proficiency in English, University of Michigan.