

Eleftherios Charteros

MACHINE LEARNING ENGINEER

📧 harteros.github.io | 🌐 harteros | in lefteris-charteros

Experience

Machine Learning Engineer

WORKABLE

Athens, Greece

October 2023 - Present

- Developed Workable's AI Screening Assistant to automatically screen candidate profiles based on job requirements and identify the most relevant candidates, streamlining the evaluation process and reducing screening time by 89%.
- Developed and deployed a personalized email generation service using modern prompting techniques, significantly increasing response rates and engagement from candidates.

Data Scientist

PWC GREECE

Athens, Greece

October 2021 - September 2023

- Implemented a BERT-based event-driven chatbot system with Django for the banking domain and the National Social Security Agency, reducing response times and boosting user satisfaction.
- Forecasted COVID-19 hospitalizations using LSTM-based time series models, aiding health authorities in resource planning and management during the pandemic.
- Developed a full-stack web application using Next.js and Django Rest Framework for a Greek Public Service, implementing a scalable microservice architecture, enhancing system performance and maintainability.
- Redesigned the backend for the National Social Security Agency application to use REST APIs developed with Django Rest Framework, reducing load time by over 75% and increasing efficiency and usability.

Software Engineer

GREEK ARMY

Rhodes, Greece

Nov 2020 - Aug 2021

- Automated operations and streamlined workflows for the Rhodes Officers Club by developing an online ordering and booking management system (lethrodou.gr), increasing efficiency and profitability.

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

MSC 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

BSC IN COMPUTER SCIENCE AND INFORMATICS, GPA: 8.88/10 (EXCELLENT)

Athens, Greece

Oct 2015 - Jun 2019

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

Certificates

Microsoft

- Azure Fundamentals, Azure Data Fundamentals, Azure AI Fundamentals
- Azure Data Scientist Associate, Azure Data Engineer Associate

Research and Publications

Athens University of Economics and Business

Athens, Greece

LAY IMPORTANCE ON THE LAYER: FEDERATED LEARNING FOR NON-IID DATA WITH LAYER-BASED REGULARIZATION

Mar 2023

- Published at IEEE, INFOCOM Workshop on Distributed Machine Learning and Fog Networks.

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

- Published at IEEE, IoT-Health Workshop.

Skills

Technical Skills

- Python, R, SQL, Java, Javascript, Typescript, HTML, CSS
- Pytorch, Langchain, FastAPI, Litestar, Django, Nuxt.js, Vue.js, Docker, PostgreSQL, Git, Github, Azure

Soft Skills

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

Projects

For more projects and details: 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.