loannis Karkanias

Python AI & Data Science Developer, Physics PhD Address: Dorotheou 1, 42100 Trikala Greece

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Website: iokarkan.github.io

Other: LinkedIn, HuggingFace, Github

Skills

Data Science

scipy, pandas, numpy, matplotlib, PySpark, ROOT

Open-Source Artificial Intelligence / Machine Learning

sk-learn, PyTorch, Keras, LangChain, gradio, HuggingFace

Web Development

Flask, REST APIs, Tailwind, Jekyll

Experience

Tech Blog Writer / iokarkan.github.io

DECEMBER 2022 - PRESENT

Maintenance of personal Jekyll blog/portfolio project, showcasing Al/ML demos and original content about Al, ML and Data Science in python.

IT Business Analyst / Arhs Developments Hellas

DECEMBER 2021 - DECEMBER 2022

Principal Business Analyst on a Big-Data analytics project, with data quality, anonymisation and tiered database pipelines. Coordinated development effort with User Stories, and automated Requirements and Impact analysis using MS Excel and python.

PhD in Experimental Particle Physics / Aristotle University of

Thessaloniki

NOVEMBER 2017 - JUNE 2022

Statistical profile-likelihood analysis in physical system experimental particle collision data from the ATLAS experiment at the LHC at CERN, in collaboration with an international analysis group (Thesis).

- Binned hypothesis testing using kinematic variables and classification (ML and DL) scores for observed data and simulated signal and background in parameter estimation of physical extension models.
- Synthetic data generation using SMOTE and GANs.
- Systematic error modeling in python and data visualization with ROOT.

Courses

Data Analysis with Python, Open Uni (2022) / Helsinki University

MARCH 2023

PyTorch for Deep Learning in 2023: Zero to Mastery / Udemy

MARCH 2023

The Flask Mega Tutorial / Udemy

MARCH 2023

Big Data Platforms / Helsinki University

NOVEMBER 2021

Ethics of Al / Helsinki University

SEPTEMBER 2021

Full Stack Open 2021 / Helsinki University

AUGUST 2021

Education

MSc in Elementary Particle Physics / Durham University, UK

2016 - 2017

Graduated with Distinction.

BSc in Physics / Aristotle University of Thessaloniki

2011 - 2016

Graduated following the Theoretical Physics curriculum and a GPA of 8.11/10.

Languages

Greek - Native Speaker

English - Professional Level (C2)

German - Advanced Level (C1)