Giorgos Papadakis

Applied Mathematician & Machine Learning Engineer

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Profile

A Mathematician / Machine Learning Engineer with a passion for Machine Learning, Data Science, and Teaching. Known for excellent communication skills, adaptability, and fast learning ability.

Skills

Technical Skills: Machine Learning, Deep Learning, Python, Tensorflow, PyTorch, sklearn, SHAP, R, Computational Mathematics.
Soft Skills: Organization, Communication, Impartiality, Problem Solving, Team Collaboration.

Experience

Machine and Deep Learning Engineer 2023 – Today
Creating machine learning solutions on interesting datasets. See more on my GitHub page.

Mathematics Teacher – Secondary Education School "BOLI" 2021 – Today
Teaching mathematics to primary and secondary school students. Also taught university-level statistics.

Education

Master's Degree in Data Science and Machine Learning 2021 – 2023
National Technical University of Athens (NTUA), School of Electrical and Computer Engineering
Grade: 8.61 / 10

Thesis: Recognition of Cancer Tumors Using Deep Learning Techniques
- Developed and optimized UNet and Attention UNet models, achieving performance close to state-of-the-art benchmarks.
- Applied advanced image segmentation techniques and model evaluation metrics using TensorFlow and Keras.

Bachelor's Degree in Applied Mathematics 2016 – 2020
National and Kapodistrian University of Athens (NKUA), Department of Mathematics
Grade: 7.50 / 10

Certifications

Machine Learning Explainability 2025
Certificate from Kaggle for successfully completing Machine Learning Explainability with Shap Library.

Time Series Analysis 2025
Certificate from Kaggle for successfully completing Time Series training with basic and hybrid models.

Machine Learning with Python: Zero to GBMs 2023
Certificate from Jovian, representing approximately 60 hours of coursework in machine learning.

Selected Projects

Cancer Tumor Recognition System:
- Designed a deep learning system based on UNet and Attention UNet for image segmentation.
- Achieved close to state-of-the-art results in accuracy metrics.

Brain Tumor Classification with Transfer Learning:
- Designed a deep learning system based on Transfer Learning.
- Use of VGG16 as a backbone feature extractor - Attention Layer for features enhance and Fully Connected Neural Network as head for the classifiction.
- Achieved close to state-of-the-art results in accuracy metrics.

Military Service

Fulfillment of Military Obligations 2020 – 2021
Served in Samos and Sparta as an infantry soldier with the qualifications of Holmist - General Duties.

Languages

Greek: Native
English: Advanced (C1 Level)

Hobbies

Reading: Books related to Data Science, Machine Learning, and Deep Learning.
Sports: Active athlete of Pankration and member of the Administrative Council of the National Federation of Pankration Athlima as athlete representative.