

Konstantinos Atzarakis

M.Sc. | Ph.D. Candidate

Location: Athens, Greece

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Summary

Data Scientist & Machine Learning Engineer. Skilled in *Deep Learning* with Python and proficient in *Object-Oriented Programming*. Open Source advocate and Linux enthusiast. Eager to contribute in collaborative environments, learn and apply new technologies.

Skill Highlights

- Data Science
- Deep Learning
- Predictive Modeling
- Feature Engineering
- Timeseries Forecasting
- Data Visualization
- Generative AI, Transformers, CNNs
- Python
- SQL
- PyTorch/Lightning, Keras
- Numpy, Scikit-learn, Pandas, Seaborn, etc.
- Git
- Docker
- Linux/Bash

Experience

Machine Learning Engineer (2021 – present)

MGroup – Multidisciplinary Computational Mechanics Research Group

- Developed *Timeseries Forecasting* Architecture Using *CNNs* for Biomechanics Problems
- Assisted Development of *Temporal Fusion Transformer Model* for Structural Dynamics
- Deployed Large-Scale Computational Mechanics Statistical Experiments in HPC Infrastructures (Grid5000 – France, Aris Supercomputer – Greece)
- Reduced queries of Quantum Computing algorithm up to 70% by using FFNNs

Publications

- L. Papadopoulos, K. Atzarakis, G. Sotiropoulos, I. Kalogeris, V. Papadopoulos, "[Fusing nonlinear solvers with transformers for accelerating the solution of parametric transient problems](#)", Computer Methods in Applied Mechanics and Engineering

Education

- **Ph.D.** in *Machine Learning & Computational Mechanics* – NTUA (2021 - present)
- **M.Sc.** in *Data Science & Machine Learning* – NTUA (2020-2022) - Grade: 8.7/10
- **M.Eng.** in *Structural Engineering* – NTUA (2014-2019) - Grade: 8.7/10

Languages

- Greek (Native)
- English (C2)
- German (B2)