

Stavros Niafas

Athens, GR - 19th May 1991

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Stavros Niafas received his BSc degree from the Department of Informatics Engineering at the University of Thessaly. Additionally, he holds an MSc in Image Synthesis & Multimedia and an MSc in Data Science. As a professional ML engineer, he has demonstrated experience in both R&D and production settings. He has a proven track record of driving project experiments and PoCs into mature codebases, handling large volumes of data, as well as designing, developing, and deploying models into end-to-end ML production systems. His research interests expand into the domains of Machine/Deep and Active Learning, Data Centric AI, and Computer Vision. He is also actively engaged in MLOps, systems engineering, and FLOSS contributions.

Working Experience

Convert Group

ML ENGINEER

November 2020 - Now

- Develop, tune and maintain ML powered services for computer vision and other projects
- Utilize MLOps to automate and design ML lifecycle
- Perform A/B testing, performance evaluations and reporting analyses
- Research for novel methods & drive PoCs towards product enhancements and operations improvements
- Present engineering related talks, author engineering blogging & contribute to floss

Deepmed I/O

SYSTEMS ENGINEER

March 2019 - May 2019

- Built, configured and maintained deep learning & network on prem/cloud infrastructure
- Tested & deployed company's projects
- Produced technical documentation and guidelines for reference and reporting

AI ENGINEER

September 2018 - February 2019

- Participated and involved in company's outsourced project
- Performed exploratory data analysis, wrangling and cleaning in combined data schemes
- Implemented & improved image processing, machine & deep learning algorithms and models
- Document & present project progress in customer facing meetings

Education

NCSR Demokritos - University of Peloponnese

MSC DATA SCIENCE, GPA: 8.75

2019 - 2021

- Thesis Title: *Photography style analysis using Machine Learning* - Supervisors: Theodoros Giannakopoulos, Prof. Evaggelos Spyrou

University of West Attica - Université de Limoges

MSC INFORMATICS, IMAGE SYNTHESIS & GRAPHICS DESIGN INTERNET & MULTIMEDIA TECHNOLOGY, GPA: 13.96/20

2014 - 2016

- Thesis Title: *Image Retrieval platform for building recognition in urban environments* - Supervisor: Prof. Anastasios Kesidis

University of Thessaly

BSC. INFORMATICS ENGINEER, GPA: 7.33

2009 - 2014

- Thesis Title: *Evaluation and development of Feature Extraction Methods in WCE Video* - Supervisor: Prof. Evaggelos Spyrou

Skills

Development	Python, Matlab, R, PHP, HTML/CSS, C, SQL, \LaTeX
Tools & Technologies	Numpy, Pandas, Scikit-Learn, Keras, Tensorflow, Pytorch, MLFlow, OpenCV, HuggingFace, Jupyter, Git, Docker, GCP, AWS
Operating Systems	GNU/Linux (Debian based), Unix, Windows
Other	Scrum
Soft Skills	Ownership, Teamwork, Proactiveness, Patience, Flexibility, Active Listening, Knowledge Sharing

Conferences

FOSSCOMM 2022 - University of Thessaly

DEMOCRATIZING ML, DEMOCRATIZING ML W/ HUGGINGFACE (WORKSHOP)

[link](#)

Nov 2022

FOSSCOMM 2021 - University of Macedonia

REAL-WORLD MLOPS W/ MLFLOW, MLOPS IN PRACTICE W/ MLFLOW (WORKSHOP)

[link1](#), [link2](#)

Nov 2021

FOSSCOMM 2020 - University of Western Macedonia

PHOTOGRAPHY STYLE ANALYSIS USING MACHINE LEARNING

[link](#)

Nov 2020

Other Academic Activities

Feb 2021 **Reviewer in scientific journals**, WILEY

[link](#)

Certificates

Mar, 2023 **Advanced AI: Transformers for CV**, LinkedIn

[link](#)

Jun, 2021 **Building Transformer-Based NLP Applications**, NVIDIA

[link](#)

Jun, 2018 **Deep Learning Specialization**, Coursera

[link](#)

Awards

Granted Visitor with team EA/AAK, FOSDEM 2017, Event organised by volunteers to promote the widespread use of free and open source software

Best contribution, Units of Excellence EA/AAK Awards - Money award for best contributed project.

Languages

English, English Speaking Board (C2)

German, Goethe Institut Athen - Zertifikat Deutsch (B1)

Publications

- [1] Spyrou, E., Iakovidis, D. K., Niafas, S., & Koulaouzidis, A. (2015). Comparative assessment of feature extraction methods for visual odometry in wireless capsule endoscopy. *Computers in biology and medicine*, 65, 297-307.
- [2] Mitsianis, E., Spyrou, E., Giannakopoulos, T., Niafas, S., & Perantonis, S. (2018, July). Deep learned features for image retrieval. In *Proceedings of the 10th Hellenic Conference on Artificial Intelligence* (pp. 1-4).