Stavros Niafas

Athens, GR - 19th May 1991

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Stavros Niafas received his BSc degree in Informatics Engineering from the Department of Informatics Engineering of University of Central Greece in 2014. He also holds an Msc in Image Synthesis & Multimedia and an Msc in Data Science. His bachelor and MSc theses lay in the areas of digital image processing, computer vision, information retrieval, ML/DL and active learning. His research interests expand in the domains of Machine/Deep learning, MLOps, Data Centric AI and Computer Vision as well. He is also actively engaged in systems engineering, FLOSS & photography.

Working Experience

Convert Group

ML Engineer — *November 2020 - Now*

- Develop, tune and maintain ML powered services for image similarity and OCR
- Utilize MLOps to automate and design ML project lifecycle
- Perform A/B testing, performance evaluations and reporting analyses
- Research for novel methods & drive PoCs towards product enhancement and operations improvement
- Present engineering related talks, author engineering blogging & contribute to oss

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

Nexus Computers

Computer Technician - Practical Training — *April 2013 - May 2014*

- Built, repaired and maintained computer hardware
- Setup and configured hardware and software
- Customer support (phone, onsite)

Education

NCSR Demokritos - University of Peloponnese, GPA: 8.75

MSc Data Science — *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, MLFlow, OpenCV, Jupyter, Git, Docker, Google Cloud Platform
Operating Systems	Unix, Linux (Debian based), Windows
Other	LibreOffice, MS-Office, Scrum
Soft Skills	Team-working, Self Motivated, Patience, Flexibility, Active Listening, Ownership, Knowledge Sharing

Conferences

FOSSCOMM 2021 *Online*

Nov. 2021

- Real-world MLOps w/ MLFlow
- MLOps in practive w/ MLFlow (workshop)

FOSSCOMM 2020 *Online*

Nov. 2020

- Photography Style Analysis using Machine Learning

Awards

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

Best contribution, Units of Excellence ΕΛ/ΛΑΚ 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).