Athanasios Masouris

thanosmas97@gmail.com Personal Website GitHub LinkedIn

Education

Delft University of Technology (TU Delft) — Delft, the Netherlands
MSc in Computer Science — *Sep. 2021 – Aug. 2023*

- Track: Artificial Intelligence
- Graduated with distinction
- Thesis: **End-to-End Chess Recognition** [document]

National Technical University of Athens (NTUA) — Athens, Greece
Joint BSc & MSc in Electrical and Computer Engineering — *Sep. 2015 – Aug. 2020*

- Concentration field: Computer Science
- Member of the Artificial Intelligence and Learning Systems Laboratory (AILS lab)
- Thesis: **Text-to-image synthesis using Generative Adversarial Networks (GANs)** [code]

Certificates

Machine Learning Engineering for Production (MLOps) (Nov. 2023) by *deeplearning.ai* [credential]

Azure AI Fundamentals (May 2023) by *Microsoft* [credential]

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Deep Learning Specialization (Aug. 2019) by *deeplearning.ai* [credential]

Machine Learning (Apr. 2019) by *Stanford |Online* [credential]

Experience

Google Summer of Code — June 2022 – Sep. 2022
Intel's OpenVINO Toolkit — *Remote*

- Project: "Train a DL model for synthetic data generation for model optimization" [paper] [code]
- Developed a GAN for conditional image generation through knowledge distillation
- Evaluated post-training quantization using synthetic data
- Results demonstrated less than 0.6% accuracy degradation

Military Service — Nov. 2020 – July 2021
Research and Informatics Corps, Hellenic Army

Machine Learning Intern — July 2020 – Sep. 2020
National Centre for Scientific Research "DEMOKRITOS" — *Agia Paraskevi, Greece*

- Developed a pipeline for an automatic video-game review summarization system in Python
- Evaluated machine learning classifiers for the aspect identification module of the pipeline

Publications

1. **Masouris, A.** and van Gemert, J. (2024). **End-to-End Chess Recognition**. In Proceedings of the 19th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 4: VISAPP, ISBN 978-989-758-679-8, ISSN 2184-4321, pages 393-403.

Skills

Programming/Scripting Languages: Python, SQL, HTML/CSS/JS
Machine Learning Frameworks & Libraries: PyTorch, PyTorch Lightning, OpenCV, Scikit-learn
Frameworks and tools: Azure, Docker, Git, REST APIs, Django, LaTeX

Languages

Greek (Native), **English** (Proficient)