Nicolò Vescera

Curriculum Vitae

Education

2021–2023 : **Master's degree in Computer Science**, *Università degli Studi di Perugia*, Thesis : A Deep Learning approach for Time Series Imputation on Photovoltaic data.

2017–2021 : **Bachelor's degree in Computer Science**, *Università degli Studi di Perugia*, Thesis : Adversarial Machine Learning Attacks vs Android Detection Systems.

2012–2017 : **High School diploma in Computer Science and Information Technology**, *I.T.T.S. A. Volta*.

Academic Career

2024-11 : **PhD Student @Università degli Studi di Perugia**.

2024-04 : **Research Contract @Università degli Studi di Perugia**, *UniNuvola GPU: system configuration and service design*.

Publications

2024-06: **An approximation-based approach versus an AI one for the study of CT images of abdominal aorta aneurysms**, *Lucrezia Rinelli, Arianna Travaglini, Nicolò Vescera, Gianluca Vinti*, arXiv, https://arxiv.org/abs/2406.01764.

Experiences

2024-12: **SOSC 2024**, *Participation SOSC 2024 Sixth International School on Open Science Cloud, Bologna, Italy*.

2024-09: **AIxIA Summer School 2024**, *Participation in AIxIA International summer school 2024: Advances in Artificial Intelligence, Como, Italy*.

2024-07: **ESSAI & ACAI Summer School 2024**, *Participation in ESSAI & ACAI Summer School 2024 at National Centre for Scientific Research "Demokritos", Athene, Greece*.

Thesis

Master : A Deep Learning approach for Time Series Imputation on Photovoltaic data.

Bachelor : Adversarial Machine Learning Attacks vs Android Detection Systems.

Internship

2023 : **RedLynx**, *Time Series Imputation on Photovoltaic data using a Deep Learning Approach*. (6 months)

2021 : **Università degli Studi di Perugia**, *Training and Evaluation of several image classification model architectures based on Deep Learning, tested against basic Adversarial Machine Learning attacks*. (3 months)

Skills

Programming Languages	Python (PyTorch, Keras, Tensorflow, Numpy, Pandas, Numba), Golang, Kotlin, Java, Javascript, C
Database	PostgreSQL, MariaDB, MySQL
Dev. Technologies	docker, kubernetis, git, GitHub (git-flow, github-workflow), networking base knowledge, Linux (debian-based & arch-based distros), Jupyter Lab/Notebooks, advanced CLI usage, Apache Web Server, nginx, openvpn, CUDA

Projects

- **Complex Network link prediction**, *A python library for link prediction in social networks*, (Python), Owner.
- **KeepReading**, *KeepReading is a Mobile (Android/IOS) Cross-Platform App wrapper for the Keep Talking and Nobody Explodes manual*, (Flutter), Owner.
- **LaTex DevContainer**, *LaTeX development container for Visual Studio Code Remote Containers Development*, (Dockerfile), Maintainer.
- **Formula SAE @UniPg**, *Dashboard GUI Team & Driverless Team*, (Python, C), Developer.