

Valerio Valente

SOFTWARE ENGINEER

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Achievements

Finalist of HUAWEI Seeds For the Future program

November 2021

The program consists of webinars on technology, leadership, entrepreneurship, and Chinese culture, at the end of which a Tech4Good project must be developed. Only 50 students per country are selected (acceptance rate 0.5%) and split in teams of 5. My team and I were the only 5 Italians who gained the access to the final. My role in the competition was:

- Develop the mock-up of our application exploiting UX/UI methodologies,
- Develop the business plan investigating budget, competitors, and investors.

Experience

NLP For Integrity on Social Platforms (Research Project)

August 2023 – January 2023

Developed a learning model able to classify social media posts compliancy with respect to a specific policy. To achieve it I

- Had my hands on a cutting-edge research topic (MAML – meta learning)
- Used advanced deep learning architectures such as BERT
- Employed research papers' techniques like the Attention Mechanism
- Wrote code using the following language and libraries: Python, PyTorch, Pandas, NumPy

This allowed me to obtain 0.75% accuracy on a wide set of mixed policies and posts.

Single Image Super Resolution with Generative Adversarial Network

December 2021 - July 2022

Produced a neural network able to restore low quality images into high quality ones. I worked as part of a team and my role was to

- Write the Python code (using PyTorch and other libraries) to build the network
- Dive into research to improve the existing solution (employed noise on input images to augment our model generalization ability)

The efforts produced a +0.4 average PSNR (standard measure that denotes the distance between the low-quality image and its restored version – the higher, the better) with respect to the non-improved model.

Education

Sapienza University, MS Computer Science

January 2023

Major: Computer Science | Minor: Data Science & Machine Learning

Roma Tre University, BS Software Engineering

December 2019

Major: Engineering | Minor: Computer Science