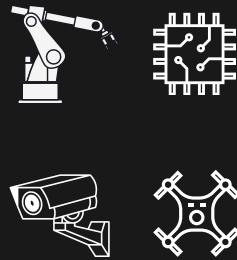




FRANCESCO GABRIELE

Engineer



ABOUT ME

My lifelong curiosity about understanding how things work, fostered during my years as an energetic little explorer, led me to pursue engineering. Through a dedicated and methodical approach during my bachelor's degree, I acquired the mathematical and engineering foundation that now facilitates my journey in learning AI and its applications in cutting-edge technologies during my master's studies.

EDUCATION

Data Science

Master's Degree, University of Padua
(2022-Expected Completion: December 2024)

Energy Engineering

Bachelor's degree, University of Pisa
(2018-2022)

CONTACTS

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- +39 3392987012
- <https://github.com/FraaMLE?tab=repositories>

Pursuant to Regulation (EU) 2016/679 of the European Parliament and of the Council of 27th April 2016, I hereby consent to the processing of personal data included in my job offer for the purpose of the present, and future, recruitment by Antmicro Ltd.

PROGRAMMING SKILLS

- C++
- Python
- R
- SQL
- Git Version Control
- Familiarity with Ubuntu (Linux)

TECHNICAL PROFICIENCIES

- Machine Learning and Deep Learning
- Neural Network Architectures
- Supervised and Unsupervised Learning
- Optimization, Regularization
- PyTorch, TensorFlow, Keras
- Computer Vision Algorithms
- Filters and Detectors
- OpenCv
- Reinforcement Learning
- Data Structures
- Debugging

PROJECTS

Image Captioning

Incorporating a combination of recurrent neural networks, LSTM, and Convolutional Autoencoder to generate a text description as accurately as possible for the provided input image.

Face Detection and Recognition for Surveillance Systems

After an initial setup phase where the program requires a couple of facial photos for each person to be identified, it can detect and recognize faces in real-time from frames captured by the vision system. Unrecognized faces are labeled as 'unknown'.

Image Reconstruction from Noisy Images using DBNs

The project aims to analyze the efficiency of a Deep Belief Network and a Feed-Forward Neural Network. Further investigation into their resilience to data noise and adversarial attacks were also conducted

SOFT SKILLS

My open and communicative nature aligns well with collaborative team environments. Additionally, my adeptness in strategically organizing time and resources enhances my effectiveness in addressing assigned tasks.

LANGUAGES

- Native in: Italian
- Fluent in English