Federico Favia

Data Scientist & Machine Learning
Engineer — MLOps
Computer Vision MSc Graduate

Born:	04.11.1996, Mantova, Italy
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Languages:	**English C1** (IELTS Band 8), **Italian** (Mother Tongue)

WORK EXPERIENCE

Technology Reply IT, *Milan, Italy* May 2021
Data Science Consultant

Machine Learning Engineering position in the Artificial Intelligence Business Unit. Projects on Deep Learning, Computer Vision, Object Detection and Tracking, Data Science and MLOps practises (Python, PyTorch, YOLOv5-v8, Azure ML Studio).

ManoMotion AB, *Stockholm, Sweden* Jan-Jul 2020
Computer Vision Engineer Intern

Deep Learning research project about hand segmentation to improve real-time AR hand tracking technology. Implementation and evaluation of different architectures in Python, Keras and Tensorflow.

Xtensa SRL, *Trento, Italy* Apr-Jul 2018
Computer Vision Student Intern

Realistic computer vision project in C/C++ and OpenCV. Convolutional neural networks approach, as YOLOv3. Implementation and validation of a detection and tracking system about soccer players.

EDUCATION

KTH Royal Institute of Technology, Stockholm, Sweden - A 2018-2021
Double Degree MSc, Electrical Engineering - ICT Innovation

- Final thesis project at company "Real-time hand segmentation using deep learning"

- Exit University of EIT Digital Academy, Specialisation in Mobile Visual Computing: Courses in Computer Vision, Visual Data Analysis, Video Processing

University of Trento, Italy - 110/110 with honours 2018-2021
Double Degree MSc, Information and Communications Engineering - ICT Innovation

- Entry University of EIT Digital Academy in Visual Computing Communication:
  courses in Pattern Recognition, Computer Graphics, Multimedia Security

- Minor in Innovation & Entrepreneurship, School of Innovation CLAB Certificate

University of Trento, Italy - 105/110
2015-2018

BSc in Telecommunications Engineering

- Final thesis "Convolutional Neural Networks' use for detection and tracking of players in sport events"
- Relevant courses in Image Processing and Transmission, Biomedical Diagnostic Techniques, Remote Sensing and ELEDIA ETRP Talented for Electromagnetic Field Simulators

Scientific High School "E. Fermi" Mantova, Italy - 100/100
2010-2015

Scientific Gymnasium of Applied Sciences

PROJECTS

Winners "Hack Future of SME Banking"
Dec 2019

Budapest, Hungary

Ultrahack & EIT FinTech Hackathon won with my team to improve OTP bank's E-biz platform.

Startup Lab Trento
Feb-May 2019

CLAB Trento, Italy

Business Development Laboratory: our team arrived in the finals with our IOT safety device for mountain bikers (awarded with **best IoT project** and best entreprenurial project of the year).

Computer Vision Academic Projects (C++, Python, OpenCV, Matlab)
2018-2020

Stockholm & Trento

Naval Traffic's Estimate in Venice, SIFT/SURF features for Image matching, Vocabulary Tree for Visual Search System, Edge Detection, Hough Transofrm and Object Segmentation, Image Compression.

CERTIFICATES

- **Oracle Cloud Infrastructure Data Science** 2022 Professional, Apr 2023
- **IELTS Band 8 - C1** CEFR Level - General Training, British Council, Jul 2022
- **NVIDIA - Fundamentals of Deep Learning**, NVIDIA DLI, Sep 2021
- **Innovation Certificate**, School of Innovation Trento, Aug 2021
- **Huawei Seeds for the Future**: Top-10 Tech Uni talents by Huawei Italy, Nov 2020
- **Helsinki EIT Summer School**: Aalto University, Disrupting Retail, Aug 2019

SKILLS

- **Computer Science Skills**: Proficient Python, C/C++ and OpenCV, PyTorch and YOLO Models. MLOps and Azure Data Labeling, Pipelines in Azure ML Studio. Familiar in TensorFlow, Keras, Matlab, R and Arduino IDE. Fluent in Microsoft Office and familiar with Adobe Illustrator/Photoshop.
- **Personal Skills**: Strong team-working and problem solving inclination, Creative person, Passionate about Computer Vision Problems, Fascinated by Cinema and Sport Industries.

VOLUNTEERING

- **EIT Digital Student Ambassador**, 2020-2021: giving counsel to future prospective students.

- **YourGuide Career Consultant**, 2020-present: giving advice to Italian students willing to study and/or work abroad.

- **Youth Pastoral Educator of teenager groups**, 2010-2017: Parish "Natività della Beata Vergine Maria" in Cerese, Borgo Virgilio (Mantova - Italy).