



# Federico Favia

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

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*Born:* 04.11.1996, Mantova, Italy  
*Location:* Milan, Italy, *Phone:* +39 346 5759669  
*Mail:* [federic.fav@gmail.com](mailto:federic.fav@gmail.com)  
*Contacts:* [LinkedIn](#) - [Portfolio](#) - [Github](#)  
*Languages:* **English C1** (IELTS Band 8), **Italian** (Mother Tongue)

## WORK EXPERIENCE

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**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

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**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

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### 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 entrepreneurial 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 Transform and Object Segmentation, Image Compression.

## CERTIFICATES

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- **Oracle Cloud Infrastructure Foundations** 2023 Associate, Jun 2023
- **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

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- **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**

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- **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).

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