

Born: 04.11.1996, Mantova, Italy 🛛 (+39) 3465759669 | 👅 federic.fav@gmail.com | 🖸 favia96 | 🖬 federico-favia | Data Science | MLOps | ICT | Telco

ederico Fav

### **Summary**

Experienced Data Scientist with a strong technical foundation in Computer Vision, Image Processing and DL/ML, especially within smart operations area. Proficient in managing projects and teams, coordinating AI/ML development team activities, and maintaining a point of contact with customers to drive activities, with robust background in team work and problem solving. Specialized in CV pipelines (on cloud as well) with deep neural networks, AI models, CNNs and algorithms for visual detection/recognition/tracking/segmentation (architectures fine-tuning) plus data collection and annotation

# Work Experience

#### Technology Data Reply IT - AI BU

SENIOR DATA SCIENTIST CONSULTANT

- Worked on optimizing processes through computer vision and AI on network cameras for important airports customers (biggest European cargo airport which lowered its CO2 footprint and ground operation times).
- Specialized in Al-driven solutions for smart operations, with deep expertise in computer vision, image processin, deep learning, and MLOps (Python, OpenCV, PyTorch, YOLOv5-v8, RTMDet, OCR, Azure ML Studio).
- · Led small teams in end-to-end machine learning system development, from data collection and model training to production deployment, ensuring scalable and efficient solutions. Deployed object detection models and image processing pipelines on cloud platforms (Azure) and edge devices (NVIDIA Jetson).

#### **ManoMotion AB**

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: reached 96.03% Dice Accuracy on proprietary dataset and 75.26% Dice on average cross-dataset, running at 23.8 FPS.

#### **Xtensa SRL**

COMPUTER VISION STUDENT INTERN

• Developed and validated a soccer player detection and tracking system using C/C++, OpenCV, and a convolutional neural network approach, specifically YOLOv3.

### Skills\_

CS Proficient in Python and OpenCV. Familiar in C/C++, Matlab, R and Arduino IDE, SQL, Snowflake Proficient in PyTorch and YOLO, RTMDet Models. Familiar in Cloud Deployment, Jetson Edge Deployment, TensorFlow, Keras AI MLOps Proficient in MLOps and Azure Data Labeling, Pipelines in Azure ML Studio and Cloud Architectures, OCI Data Science DevOps Familiar in Docker, DL Architecture Design, K8S, AKS Back-end MQTT, Azure ServiceBus and Azure EventHub. Familiar in Azure Datalake and Azure Data Factory Languages English C1 (IELTS Band 8), Italian Personal Team Leading, Strong team-working and problem solving inclination, Mentoring and Training, Customer Communication Others Fluent in Microsoft Office and familiar with Adobe Illustrator/Photoshop

# Education

#### KTH Royal Institute of Technology - Grade: A

DOUBLE DEGREE MSC, ELECTRICAL ENGINEERING - ICT INNOVATION

- Final thesis project at company "Real-time hand segmentation using deep learning".
- Exit University of EIT Digital, Specialisation in Mobile Visual Computing: Courses in Computer Vision, Visual Data Analysis, Video Processing,

### University of Trento - Grade: 110/110 with honours

#### 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 and Entrepreneurship, School of Innovation CLAB Certificate.

Milan, Italy - Hybrid

May 2021 - PRESENT

Stockholm, Sweden

### Trento, Italy

Jan. - Jul. 2020

Apr. - Jul. 2018

# Trento, Italy

2018 - 2021

Stockholm, Sweden

### 2018 - 2021

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#### University of Trento - Grade: 105/110

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 - Grade: 100/100

LSSA "E. Fermi"

# **Projects**

### Winners "Hack Future of SME Banking"

Deephack EIT

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

#### **Startup Lab Trento**

**BUSINESS PROJECT** 

• 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

• 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

*	M2L Mediterranean ML Summer School, Milan Bicocca University	Sep 2024
*	State Exam Qualification as Engineer - Informatics A, Milan Polytechnic University	Jan 2023
*	World Summit AI 2023, Amsterdam	Oct 2023
*	Microsoft: Azure AI Fundamentals AI-900, MS Azure	Jan 2023
*	IELTS Band 8 - C1 CEFR Level - General Training, British Council	Jul 2022
*	OCI Data Science and DevOps Professional, OCI Machine Learning using Au- tonomous Database and	2022-2023
	Data Management, OCI Foundations, OCI AI Founda-tions, Oracle	
*	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, Finland	Aug 2019

### Awards

2023	Reply Gala Awards, Best Project Technology Innovation: "Advanced Trolley Management in Airport Ground	Turin
	Handling Operations"	
2023	Reply Xchange Speaker, "A Computer Vision AI Powered Solution for Smart Operation Control"	Milan
2022	Reply Xchange Speaker, "Airport Intelligence: the Fraport Airfield Operations experience"	Milan

### **Volunteering**

#### **EIT Digital Student Ambassador**

GIVING COUNSEL TO FUTURE EIT PROSPECTIVE STUDENTS

### Budapest, Hungary Dec 2019

#### CLAB Trento, Italy Feb 2019 - May 2019

# Stockholm and Trento

#### 2018-2020

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Mantova, Italy

2010 - 2015