



Federico Favia

COMPUTER VISION ENGINEER · ML/DL ENGINEER

Born: 04.11.1996, Mantova, Italy

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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

Milan, Italy - Hybrid

DATA SCIENTIST CONSULTANT

May 2021 - PRESENT

- Worked on optimizing processes through computer vision and AI on network cameras for important airports customers (biggest European cargo airport).
- 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, RTMDet, Openmmlab, Azure ML Studio).

ManoMotion AB

Stockholm, Sweden

COMPUTER VISION ENGINEER INTERN

Jan. - Jul. 2020

- 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

Trento, Italy

COMPUTER VISION STUDENT INTERN

Apr. - Jul. 2018

- 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
AI	Proficient in PyTorch and YOLO, RTMDet Models. Familiar in Cloud Deployment, Jetson Edge Deployment, TensorFlow, Keras
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	Strong team-working and problem solving inclination, Creative person, Passionate about Computer Vision Problems
Others	Fluent in Microsoft Office and familiar with Adobe Illustrator/Photoshop

Education

KTH Royal Institute of Technology - Grade: A

Stockholm, Sweden

DOUBLE DEGREE MSC, ELECTRICAL ENGINEERING - ICT INNOVATION

2018 - 2021

- 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

Trento, Italy

DOUBLE DEGREE MSC, INFORMATION AND COMMUNICATIONS ENGINEERING - ICT INNOVATION

2018 - 2021

- 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.

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".

Trento, Italy

2015 - 2018

Scientific High School - Grade: 100/100

LSSA "E. FERMI"

Mantova, Italy

2010 - 2015

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.

Budapest, Hungary

Dec 2019

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 entrepreneurial project of the year).

CLAB Trento, Italy

Feb 2019 - May 2019

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.

Stockholm and Trento

2018-2020

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 Autonomous Database and Data Management, OCI Foundations, OCI AI Foundations , Oracle	2022-2023
*	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 University 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 Handling Operations"	Turin
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

EIT

2020-2021