

Tommaso Ferrario

Computer Vision Engineer



Profile

M.Sc. student in Computer Science at the University of Milano-Bicocca with a deep passion for Computer Vision, Machine Learning, and Artificial Intelligence.



Work experience





University of Milano-Bicocca, Milan

Development of a dynamic profiling system based on reinforcement learning for route recommendation in the tourism sector. Created a public service to make the profiling system accessible and authored a research paper on this topic, showcasing the methodology and results.



Education







University of Milano-Bicocca, Milan - Final grade: - / 110



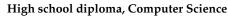


Bachelor's degree Computer Science

University of Milano-Bicocca, Milan - Final grade: 107/110

Thesis title: "Automatic traffic analysis: machine learning approaches for the analysis of traffic flows on road networks"

2020 ↑ 2015



I.S.S. Greppi, Monticello Brianza - Final grade 99/100



Projects

2025

FloodNet Image Segmentation

Semantic segmentation of drone images after Hurricane Harvey for flood identification using Fully Convolutional Networks (FCNs), incorporating data augmentation, architectures like U-Net and SegNet, and fine-tuning of DeepLab.

2025

Fine-Grained Food Classification

Design and evaluation of a fine-grained food classification system using image data. The project involved model training, data augmentation, and classification of 251 food classes, including degraded images, with comprehensive performance analysis.

2025

Self-Driving Car Simulation

Development of a Unity system with a car agent trained via reinforcement learning to tackle challenges, evaluated using curriculum learning.

2024

Ants Colony

Analysis of ant interaction networks to understand colony organization. The project used network structural properties to study the composition and behavior of individuals within the system.

2023

Just Home

Just Home is an app that simplifies short-term house rentals for trips and holidays, making the selection and booking process quick and easy.

2023

Tool Recognition

Developed an image-processing dataset and an automatic classification system for mechanical tools, integrating image segmentation, feature extraction, and preprocessing techniques to enhance recognition accuracy.



Contact



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- Website Github



Skills

- Problem-Solving
- Effective Communication
- Adaptability
- Teamwork



Technical Skills

- Machine Learning & Deep Learning
- Image Processing & Computer Vision
- Reinforcement Learning Agents
- Algorithms & Data Structures
- Data Analysis
- Relational & NoSQL Databases
- Software Development
- Version Control Systems
- Python, Java, C#, C, Julia, Matlab



Languages

Italian

Fluent

English

Intermediate

I agree to the processing of personal data provided in this document for realizing the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)