Gianluca Scarpellini

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EDUCATION

UNIVERSITY OF MILANO-BICOCCA
MS in Computer Science
Oct 2020 | Milan, Italy
GPA: 110L / 110

BS in Computer Science
Jul 2018 | Milan, Italy
GPA: 110L / 110

LINKS

- gianscarpe
- gianlucascarpellini
- gianscarpellini
- gianscarpellini

COURSEWORK

UNIVERSITY
Advanced Machine Learning
Computer Vision
Robotics
Signal processing
Probabilistic models
Machine Learning

ONLINE
Deep Reinforcement Learning (Udacity)
Probabilistic Machine Learning (Coursera)

SUMMER SCHOOLS
Eastern European Machine Learning 2021
Mediterranean Machine Learning 2021

SKILLS

PROGRAMMING LANGUAGES
Over 5000 lines:
Python • Node.js • C# • Matlab • C++
Proficiency with:
Opencv • Pytorch • Pytorch-lightning
Keras • Tensorflow • Scikit-learn •

WHO AM I

My name is Gianluca and I'm a 1st year PhD student at the Italian Institute of Technology. I want to help energy-intensive industries reducing their carbon footprint with machine learning and computer vision. Get in touch if you want to know more!

EXPERIENCE

ARGO VISION | ML Research Internship
May 2019 - Jan 2020 | Milan, Italy
- Trained state-of-the-art models for aerial semantic segmentation with IOU > 80% (Keras, Hyperopt)
- Trained models for car model and maker classification (200 classes) with accuracy > 80% (Keras)
- Adapted a plate detection & OCR pipeline for raspberry pi (Keras, Darknet, Tensorflow lite)

FLASH DELIVERY | Back-end Developer
Jun 2017 – Apr 2019 | Bergamo, Italy
- Developed and deployed back-end infrastructure (C#, Node.JS)
- Maintained database and data analysis (SQLServer, MongoDB)

BERGAMOPOST | Freelance journalist
Sep 2016 – Sep 2017 | Bergamo, Italy

RESEARCH

ITALIAN INSTITUTE OF TECHNOLOGY
Ph.D. Student
Nov 2020 – Present | Genova, Italy
Visiting Scientist
Mar 2020 – Oct 2020 | Genova, Italy
- Developed the first pipeline for solving human pose estimation with a single event-camera. Published at CVPR2021 [blog posts]
- Research on uncertainty estimation and object-detection for robotics applications

IMAGING AND VISION LAB | Undergraduate Researcher
Mar 2018 – Jul 2018 | Milan, Italy
I conducted research for my thesis as an undergraduate student. My works focused on car, pedestrians, and cyclists detection from RGB ad LIDAR data in road scenarios. Experience on Kitti Vision benchmark suite.

OPEN-SOURCE CONTRIBUTIONS

2021	Test refactoring and multi-gpu utils	Pytorch Lightning [code]
2020	NLP pipeline for advertasing matching	Open-source [code]
2018	Classical CV pipeline for chessboard detection	Open-source [code]

PUBLICATIONS

[1] G. Scarpellini, P. Morerio, and A. Del Bue. Lifting monocular events to 3d human poses. In *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, pages 1358–1368, June 2021.