Gianluca **Scarpellini**

Computer Vision researcher and Enthusiast learner

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Looking for a Ph.D. in Computer Vision and Deep Learning

Education

Università degli studi di Milano - Bicocca [notes repository]

Milano, Italy

B.S. in Computer Science **(GPA 29.5/30, final grade 110L/110)** *Sep 2015 - Jul 2018*

M.S. in Computer Science **(GPA 29.45/30)** *Oct 2018 - Oct 2020*

Major in Computer Science and Minor in Applied machine learning

Udacity

Deep Reinforcement Learning [projects repository] *Mar 2020 - Apr 2020*

Software Robotics Engineering *Apr 2020 - May 2020*

Experience

Visiting Scientist

Genova, Italy

Italian Institute of Technology @ PAVIS *Mar 2020 -*

- Event-based machine vision research
- Developed methods for events-to-frame generation
- Trained models for dynamic behavior classification from events stream with precision/recall > 95% (Pytorch)

DL Research Intern

Milano, Italy

ARGO Vision *May 2019 - Jan 2020*

- 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)

Back-end developer

Bergamo, Italy

Flash Delivery *Jun 2017 - Sep 2019*

- Developed server applications (ASP.NET, Node.JS) with > 2.000 active users

Projects

Insertion Matcher github

Unimib

Project — Python *Jan 2020*

- Pipeline for linking product insertions based on title only
- Trained NLP models with state of the art performance using hyperparameters optimization (Pytorch, PyGPGO)
- > 86% F1-score on Gold Standard

On road object detection from RGB and LIDAR data github

Image and Vision Lab, Unimib

B.S. thesis — Python *Feb 2018 - Jul 2018*

- Generated RGBD from RGB and LIDAR data
- Trained object detection & recognition models (Pytorch, Darknet)
- > 60% mAP on benchmark dataset (KITTI Benchmark Suite)

Chess Detection github

Unimib

Project — Matlab *Feb 2018*

- Implemented a pipeline for chessboard detection and geometry perspective correction in real scenarios
- Trained chess pieces classifier
- Overall score > 99% (12 classes)

Skills

Computer skills and frameworks

Proficiency in

- Python *(OpenCV, Tensorflow, Pytorch, Keras, Scikit-learn)*
- Matlab *(Matlab Computer Vision toolkit, Image Processing Toolkitt)*
- C++ *(OpenCV, Event-based vision SDKs)*

Languages

Proficiency in

- **Italian** — Mother tongue
- **English** — Business fluent