Gianluca Scarpellini

COMPLITED VISION DESEADONED AND ENTHLISIAST LEADNED

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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

SENSOR FUSION ENGINEERING [PROJECTS REPOSITORY]

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