


IACOPO CATALANO

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 **Personal Web Page**
 iacopomc
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SKILLS

Programming: Python, Java, C++, SQL, MATLAB
ML/DL: Tensorflow, Scikit-Learn, OpenCV, Keras

Languages: Native Italian, Proficient English, Intermediate French

PROJECTS

3D Multi Object Tracking

- Used a deep-learning approach to detect vehicles in LiDAR data based on a birds-eye view perspective of the 3D point-cloud.
- Implemented an extended Kalman filter to track vehicles over time, based on the lidar detections fused with camera detections.

Advanced Lane Finding

- Used Distortion Correction, Color/Gradient and Perspective Transform to detect highway lanes in a video using OpenCv.
- Calculated car position within lane and lane radius of curvature based on coefficients of polynomial fit.

PROFESSIONAL EXPERIENCE

Research Intern • Laboratoire Hubert Curien

4/2021 – 7/2021

- Developing a CNNs based multi-Object tracking algorithm to locate small electronic parts in real-time.
- Exploring the use of Siamese CNN to find the set of features that best distinguish between subjects.

Junior Data Scientist • Accenture

1/2020 – 8/2020

- Researching and adapting existing algorithms in Computer Vision
- Conducting exploratory data analysis
- Supporting Senior Data Scientists in algorithm design

Front-end Web Developer • Accenture

2/2019 – 1/2020

- Developed new web applications using Angular, Bootstrap, Angular Material and JavaScript
- Redesigned existing web applications to improve browser compatibility
- Oversaw new interns on project milestones

Front-end Web Developer (Intern) • Accenture

9/2018 – 2/2019

- Worked with Senior Developers to manage large, complex design projects
- Assisted team with testing code on multiple browsers

EDUCATION

Master of Engineering • Toyohashi University of Technology

2020 - 2022

M.Sc. Optics, Image, Vision, Multimedia • University Jean Monnet

2020 - 2022

M.Sc. Computer Science in XR • University of Eastern Finland

2020 - 2022

B.Sc. Physics • Sapienza University of Rome

2010 - 2018

RELEVANT COURSEWORK

2020: Deep Learning, a 5-course specialization by deeplearning.ai: CNN, GAN, RNN, NLP(LSTM)

2020: Tensorflow in Practice, a 4-course specialization by deeplearning.ai: CNN, NLP, Sequence Models using Tensorflow

2020: Control of Mobile Robots, Georgia Institute of Technology on Coursera

VOLUNTEER EXPERIENCE

Team Coordinator • AGESCI

2001 - 2015

- Coordinated, mentored, and trained several scout groups of different ages
- Led weekly meetings and organized yearly summer camps
- Secured parent involvement and participation in activities
- 2007 – 2009 Volunteer Stretcher (Patient Care) for U.N.I.T.A.L.S.I. Association