IACOPO CATALANO

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📍 Rome, Italy

⟨/⟩ **Personal Web Page**

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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

Vehicle Detection

• Applied HOG and SVM to create a Vehicle Detection and Tracking model with OpenCV and Scikit-Learn.

Behavioral Cloning

• Trained a Convolutional Neural Network to drive autonomously a car in a simulator using Keras.

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

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

Web Search Evaluator *(Independent Contractor)* • *Appen*   8/2017 – 8/2018

• Conducted research, evaluation, and feedback on search engine results by measuring the relevance and usefulness of web pages in correlation to predefined queries both in the Italian and American market

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

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