# ATTEO MERLO

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# KEY STRENGTH

I am a dynamic, motivated and flexible person. Eager to learn, I love facing new challenges and getting involved in new experiences. I am also optimistic and proactive in dealing with problems, but also pragmatic and realistic in analyzing facts. I'm a tech enthusiast and aspiring to be a ML/DL Engineer.

Research interest: • Machine Learning & Deep Learning • Artificial Intelligence • Computer Vision • Data Science

## WORK EXPERIENCE

• Software engineer junior consultant

Apr. 2017 - Dec. 2017

Turin, Italy

Consoft Sistemi S.P.A

Technologies used: C, C++, Python, JSON, Arduino, LoRaWAN

- Implemented ad-hoc mobility library on specific designed smartwatch for elderly person.
- Tested LoRaWAN communication protocol as solution within an IOT environment.
- Developed a JSON-like package data format.

### **EDUCATION**

Sept. 2020 - Exp. Dec. 2022 • MSc Degree in Data Science and Engineering, Politecnico di Torino Main Courses: Data Science, Mathematics in ML, Computer Vision, ML for IoT. Current GPA: 26/30

• BSc Degree in Computer Engineering, Politecnico di Torino Graduated with 95/110

Sept. 2014 - Jun. 2020

## CURRICULAR PROJECTS

• Twitter-Sentiment-Analisys:

[Repository, Paper]

- Technologies used: Python, Scikit-Learn, NumPy, Pandas, Grid Search, Logistic Regression, SVC.
- Sentiment analysis of a dataset of tweets through machine learning techniques.
- Final project of Data Science course, score achieved 12/12, final accuracy above 95 percentiles of classroom.

[Repository, Paper]

- Real-time Domain Adaptation in Semantic Segmentation:
   Technologies used: Python, PyTorch, Torchvision, NumPy, TensorBoard.
  - o Computer vision project in semantic segmentation of images from a virtual environment and subsequent domain adaptation in real world for an application in real-time for self-driving cars.
  - Final project of Machine Learning and Deep Learning course, final score 30/30.
- Default of Credit Card Clients Dataset Analisys:

- ault of Credit Card Clients Dataset Analisys: [Repository in progress, Paper in progress]

  Technologies used: Python, Scikit-Learn, Pandas, SMOTE, PCA, SVM, Random Forest, Logistic Regression.
- o Data analysis through advanced ML techniques such as SMOTE, PCA using SVM and Random Forest
- Smart Home Vigilance System:

[Repository in progress, Paper in progress]

- Technologies used: Python, Raspberry Pi, MQTT, Tensorflow, Speech Recognition, OpenCV
- An indoor video surveillance system capable of recognizing the presence of a human intrusion.
- Final project course Machine Learning for IOT.

# EXTRACURRICULAR EXPERIENCE

• IT division member

Icarus Polito students team

Oct. 2016 - Jul. 2020

[Project]

Icarus is a students team working on UAV airplane design and rocket.

- Technologies used: C, C++, C#, Java, Arduino, STM32 Nucleo, Matlab, GRIB2, Weather API
- Designed and built a UAV and rocket ground control station.
- Designed from scratch a flight route path planner through clouds using graph algorithms.
- Designed a real-time control status GUI with MatLab App Designer.

### SKILLS SUMMARY AND CERTIFICATES

- Human Languages: Italian(Native), English(Advanced), German(Limited proficiency), French(Beginner)
- Programming Languages: Python, C, C++, C#, Java, SQL/NoSQL, R, Bash
- Machine Learning: Statistics, Pytorch, Tensorflow, Keras, Numpy, Pandas, Scikit-learn, Pyspark, MapReduce
- Platforms: Linux, Windows, Arduino, Raspberry, Colab, Google cloud
- Soft Skills: Team building, Proactivity, Flexibility, Patience, Open-mindedness, Critical thinking, Problem-solving
- **IELTS** overall band 6.0 • Certificates: Mar. 2016

### INTEREST, HOBBIES AND VOLUNTEERING

Hobbies: Hiking, Swimming, Chess, Boardgames

Interest: Space, Motor sports, Travelling, Reading scientific papers

Volunteering: Musician at the Balangero's and Coassolo Torinese's band since 2006

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