Manuele Macchia

Via Salvo d'Acquisto, 25 – 71122 Foggia, Italy
Born in Foggia, Italy on 25/05/1996

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Profile

I am a second-year MSc student in data science and engineering with a background in computer science. Interested in natural language processing, computer vision, data engineering and big data analytics. Capable of working in a team to solve challenging problems and open to multicultural environments. Detail-oriented, analytical mindset and creative spirit.

Skills

Programming Python, Java, MATLAB, R, SQL, Git

Data analysis & machine learning scikit-learn, pandas, NumPy, NetworkX, SciPy, PySpark, Hadoop

Deep learning TensorFlow, PyTorch

Web technologies HTML5, CSS, JavaScript

Media Adobe Photoshop, LaTeX

Languages

Italian (mother tongue)
English (fluent, FCE Grade A, CEFR C1, June 2013)
Spanish (basic)

Interests

Guitar, Digital graphics.

Education

Politecnico di Torino
October 2019 – Present · Turin, Italy
Master of Science in Data Science and Engineering
Courses: Machine learning and Deep learning, Distributed architectures for big data processing and analytics, Statistical Methods in Data Science, Data Ethics and Protection.
Current average grade: 28.8/30.

Politecnico di Bari
September 2015 – October 2019 · Bari, Italy
Bachelor of Science in Computer Science and Automation Engineering
Information systems and applications track. Final grade: 107/110.

Universidad de Las Palmas de Gran Canaria
January – June 2018 · Las Palmas, Spain
Erasmus+ programme, Degree in Computer Engineering

Liceo Scientifico A. Volta
September 2010 – July 2015 · Foggia, Italy
High School Diploma in Scientific Studies
Main subjects: Mathematics, Physics, Philosophy. Final grade: 80/100.

Projects

Incremental learning in image classification
May – July 2020
○ Implemented incremental learning baselines from scratch in PyTorch based on scientific literature.
○ Designed and implemented experiments to study the effect of variations to state-of-the-art approaches.
○ Identified and developed novel approaches to overcome limitations of baselines.
○ Final paper and code available on GitHub.

Sentiment analysis of hotel reviews
December 2019 – February 2020
○ Analyzed, cleaned and processed a natural language dataset of hotel reviews in Italian scraped from TripAdvisor.
○ Developed a machine learning pipeline to predict the sentiment contained in unseen reviews with high accuracy (96.4% F1-score).
○ Wrote an article detailing the work and thought process and published it on GitHub.

Associations

MALTO
November 2020 – Present
○ Student team with the goal to take part in international data science competitions, achieving high performance on machine learning problems and proposing novel cutting-edge approaches.
○ Selected as a member in the first recruitment session.
○ Set up an internal wiki for managing knowledge and sharing information among team members.