

MATTIA LIMONE

+39 392 100 1573 ◇ San Sebastiano al Vesuvio, 80040, NA, Italy

mattia.limone@mail.com ◇ linkedin.com/in/mattia-limone/ ◇ github.com/MattiaLimone/

PROFILE

As a computer science student with a focus on data science and machine learning, I am well-versed in programming languages such as Python and R, as well as in machine learning algorithms and techniques.

In addition to my technical skills, I am highly organized and able to manage multiple tasks and projects at once. I am also a fast learner, eager to take on new challenges and expand my knowledge in the field of data science and machine learning.

As I near the completion of my studies in 2023, I am actively seeking opportunities for a research science internship or a full-time job in the field. I am open to opportunities both locally and internationally and I am available to travel. I am excited to contribute with my skills and knowledge to a company or organization and help drive innovative solutions through data-driven insights.

EDUCATION

Master of Computer Science, University of Salerno 2021 - Expected 2023

Relevant Coursework: *Data Science, Machine Learning, Artificial Intelligence, Natural Language Processing, Artificial Vision and Biometry, Software Engineering for Artificial Intelligence, Statistics and Data Analysis*

Erasmus Programme, student exchange program, University of Ljubljana

Relevant Coursework: *Digital Design, Machine Perception, Parallel and Distributed Systems and Algorithm*

Erasmus Programme, student exchange program, Polytech Aix-Marseille

Relevant Coursework: *Statistics, Data analysis, Database*

Bachelor of Computer Science, University of Salerno

2018 - 2021

Final mark: *102/110*

Thesis: *"Web Application for Personnel Management: A Case Study at the Salerno*

Fire Department Provincial Command"

Relevant Coursework: *Object Oriented Programming, Distributed Programming, Statistics and Probability,*

Theory of computation, Operational Research, Software Engineering, Algorithms, Data Structures

TECHNICAL SKILLS

Programming Languages	C, Python, R, PHP, SQL, Javascript
Frameworks	Tensorflow, CodeIgniter, Symfony, React Native
IDE	Visual Studio, PhpStorm, PyCharm, RStudio
Libraries	Keras, Pandas, NumPy, Matplotlib, Scikit-learn
OS	Windows, FreeBSD, Ubuntu, OpenWrt

EXPERIENCE

Web Developer

Set 2019 - Feb 2020

Hirooks

Fisciano, 84084, SA, Italy

- Use of Symfony and Codeigniter frameworks
- Achieved a good knowledge of React Native and PHP

PROJECTS

DNN-HMM system for Speaker Identification This research introduces a new method for text-independent speaker identification using a combination of convolutional and Long-Short-Term-Memory (LSTM) networks. This approach extracts both high-level features from the entire audio and frame-specific temporal features, which are used to predict the emission probabilities of a Hidden Markov Model (HMM). This method outperformed current state-of-the-art techniques on the TIMIT dataset.

Github repo: github.com/MattiaLimone/dnn-hmm

QuProBert A BERT-based model developed for query-product classification during Amazon KDD 2022, which was trained on customer queries and product information. The model accurately classifies the product given a query into ESCI categories, improving customer experience by providing relevant search results and also benefits businesses by understanding customer needs.

Github repo: github.com/MattiaLimone/QuProBert

Food Demand Forecasting In this project, I tested various ensemble learning techniques and obtained a 3% improvement over other proposed solutions. The results of this project have the potential to significantly improve the efficiency and profitability of food production and distribution for businesses.

Kaggle notebook: kaggle.com/code/mattialime/food-demand-forecasting-r2-0-883

Command and Control Centre A Web App based on CodeIgniter 4 to manage operational and administrative staff of Salerno Fire Department. It offers user-friendly tools for managing daily tasks, teams, vacation and sick leave. The application allows administrative staff to efficiently manage the operators of the Salerno provincial command through a straightforward interface.

[Commendation from Fire Department Commander](#)

Github repo: github.com/MattiaLimone/ccv-vvf

LANGUAGE

	UNDERSTANDING		SPOKEN		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	B2
French	B2	B2	C1	B2	B2

EXTRA-CURRICULAR ACTIVITIES

Red Cross Volunteer Management and preparation of food parcels, assistance and support in vaccination centers during the COVID-19 emergency, health support at events.

SOFT SKILLS

- **Leadership** Thanks to the projects I did during my studies, especially in the "Fundamentals of Computer Vision and Biometrics" course, I have really improved my soft skills and the abilities to manage a group, to take important decisions, to solve personal and relational problems and to work with unknown people.
- **Empathy** Get in touch with less fortunate families and giving them assistance during my work as Red Cross volunteer has definitely improved my ability to empathize with other people, to listen, to not judge anybody and to be open-minded.
- **Effective communication** Participating in public speaking presentation and leading group projects during my time as a student have definitely improved my ability to communicate effectively with others, to actively listen, to express my thoughts clearly, and to adapt my communication style to different audiences.
- **Adaptability** Learning to navigate unexpected changes and being open to new ideas and perspectives have helped me become more adaptable in my approach to problem-solving. Additionally, my experience as a student has taught me to be flexible and to adjust my work style in order to fit the needs of the project or team.
- **Problem solving** Participating in group projects and working on research projects have required me to think critically and creatively to solve complex problems. Additionally, my experience with coding and programming has helped me develop my logical thinking and my ability to troubleshoot and debug. These experiences have helped me become more confident in my ability to find solutions to problems and to think outside the box.

CERTIFICATIONS

- **French B2 - University of Salerno**
- **First Aid and CPR - Red Cross CAM/2021/CRI/451/13**
- **Prestashop Integrator - PrestaShop SA**

PERSONAL INTEREST

I am generally a sporty person, I have been practicing skiing since the age of 4, and lately thanks to some colleagues I have gotten into hiking. I am a big F1 fan, I couldn't imagine missing a grand prix.

Signature
