

Simone MAGGI

Machine Learning Engineer

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📍 Rome, Italy
📄 Available for relocation in Toulouse, France.



Currently, I am employed at HCL Software, where I am involved in the end-to-end implementation of machine learning solutions, from statistical modeling to deployment in production environments.

WORK EXPERIENCE

October 2022
to till date

Machine Learning Engineer, HCL SOFTWARE, Rome, Italy

- Implement and deploy in production an innovative ML solution (link), based on Bayesian Statistic **PyMC**, **BART** and **Monte Carlo simulation** for risk assessment within project management.
- Drive probabilistic modelling & experimentation (MLFlow) and model engineering, in collaboration with software architects and ML/software engineers.
- Developed a **RAG system**, tuned and evaluated on the product documentation in collaboration with the technical writers. This system will be integrated with existing solutions to enhance user experience.
- Coordination with the team (US, India and Italy based) in upgrading the product quality, customer support and demos.
- Mentor the newly hired colleagues and interns to ensure they are actively involved in the projects.

Python PyMC Statistical Modelling Docker Micro-services Architecture RAG MLFlow LLM Prompt Engineering

September 2022
April 2021

Research and Developmnet Engineer, CPM S.P.A., Italy

- Development of a navigation system for Autonomous Guided Vehicle (SLAM LiDAR navigation), using cutting-edge technology. This system has been prototyped and tested on AGVs in a real worksite environment .
- Knowledge on 'AGV & SLAM Navigation' while delivering and testing the piece of software(C++, Python, C#).
- Delivery of the results to the Stakeholders (Durr, Germany) via presentations

C++ C# WPF SLAM Navigation

June 2018
March 2018

Machine Learning intern, SAN S.R.L., Italy

- Supervised Classification of ECG signals : ETL : Filter, Normalize and Label the biometric signals, and upload the processed data in a DataBase. ML : Implemented algorithm to extract biometric indicators (Python) from data to feed a Neural Network(TensorFlow) (86% accuracy). Train directly a multilayer 1-D CNN (Keras) on the signal (95% accuracy).

Python GIT Keras Tensorflow

EDUCATION

April 2021 M. Sc. Stochastics and Data Science, University of Turin : 110/110 cum Laude, **Thesis** : Semi-Supervised Irregular heartbeat detection using Deep Generative modelling.

September 2018 Bachelor in Computer Engineering, Politecnico of Turin : 104/110

SKILLS

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|------------------------------|---|
| Statistical Machine Learning | Knowledge of Statistics (Frequentist, Bayesian, Hypothesis Testing). Supervised/Unsupervised ML models in Scikit-learn . Deep Learning Models with Pytorch (CNN, GAN, Adversarial Autoencoder) |
| Programming | Designing Object-Oriented architectures using modern C++ , Python , Java . |
| Micro-Services Architectures | Docker and Docker-Compose. Worked with Nginx, Keycloak, Redis, Kafka |
| Database | Relational databases SQL, Elastic Search, MongoDB |
| OS and utility | Unix CLI, VS Code, GIT, Jenkins CI/CD. |

LANGUAGES

Italian ●●●●●
English ●●●●○