Max **Xiang**

(+39) 36-6308-2806 | maxx.rift@gmail.com | sudohead.github.io | sudohead | max-xiang

Nationality: EU citizen

Skills

Machine learning Scikit-learn, Tensorflow, Keras, DL4J
Programming Python, C/C++, JAVA, Bash, Matlab, LaTeX
HPC OpenMP, MPI, CUDA
Web Flask, HTML, Jinja, REST API
DevOps GCP, Docker
Languages English (fluent), Italian (native), Chinese (intermediate)

Work Experience

COFCO International
Genève, Switzerland

Data Scientist
Feb. 2020 - Present

- Implemented pricing models for the Asian option market.
- Built and deployed visualisation tools using Flask.
- Building ETL pipelines using Airflow and Pandas.
- Optimised Python script to reduce missing data from 25% to 4%.

Yoroi
Cesena, Italy

Machine Learning Intern
Nov. 2017 - Jan. 2018

- Developed deep learning models for malware detection.
- Deployed prediction server using Docker container and Apache PredictionIO.

Education

The University of Manchester
Manchester, England

MSc in Artificial Intelligence
2018 - 2019

- Dissertation on human motion synthesis, built an editor with OpenGL for visualising and generating novel animations using motion capture data. Code and written thesis are available on my github.
- Used NLP techniques to mine tweets about Brexit impact on the job market. This involved topic modelling, sentiment analysis and name entity recognition.
- Modules: Machine Learning, Modelling of High-Dimensional Data, Text Mining, Computer Vision, Software Engineering, Agile Development

University of Bologna
Bologna, Italy

BSc in Computer Science and Engineering
2014 - 2018

- Dissertation in Computer Graphics, involving the development of a virtual reality application for medical imaging diagnosis using Unity 3D and the SteamVR platform.
- Led a team project designing and developing a sandbox physics simulator of the solar system in Java, using the MVC architecture.

Extracurricular Activity

Programming tutor
May. 2020 - Present

- Teaching high school students programming using Arduino as case study.

Personal projects

- Currently building an autonomous drone from scratch using Arduino and Raspberry pi.