Walter**Riviera**
Machine Learning Engineer

Contact

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Summary

Walter is a Machine Learning Solutions Engineer at Intel Corporation in Swindon (UK), where he coordinates the AI Technical Sales team for EMEA.

Key aspects (proven record available upon request)

- International experience
- Can translate business decisions into code, and vice-versa
- Fearless curious attitude in work and life

Experience

04/17 - Now   **AI - Technical Lead for EMEA**   Intel Corp. - UK

Support end-customer and partners in the Datacentre Group, with POCs and technical sales initiatives. Activities covered by the role includes:

- Helping Data Scientists at customers with brain storming activities for development and deployment
- Development, testing and sharing of Best-Known-Methods (BKMs) to simplify the adoption of Intel HW+SW Solutions for AI.
- Delivering training and technical workshops on AI to customers and internal stakeholders.
- Managing pipeline of 15 MLN $ per year on average.

Tools: *Python, DL, ML, Tensorflow, MKL, mpi, HPC UGE/Slurm, Linux*

Skills

Python ★★★★☆
ML ★★★★☆
DL ★★★★☆
Matlab ★★★★☆
HPC ★★★★☆
Linux-Bash ★★★★☆
SQL/Spark ★★☆☆☆

08/16 - 02/17   **Software Developer**   Cereproc. Edinburgh - Scotland

Tuning of Text-To-Speech applications. Back/front end SW development.
Tools: *Python, Linux, JavaScript, HTML, SW versioning*

08/15 - 02/16   **Machine Learning Engineer**   BizVenio. Glasgow - Scotland

Leverage multiple data sources to build prediction functions for users profiling.
Tools: *Python, Statistical models and hypothesis testing, clustering*

03/14 - 05/15   **Research fellow in Machine Learning**   Kiratech srl. Verona - Italy

Design of novel data mining techniques to automate the production of training datasets, deployable on robotic platforms.
Tools: *Matlab, SVMs, DNNs (Caffe), cross validations*

04/13 - 03/14   **Data analyst: project coordinator**   Dep. of Biotechnology at UniVR. Verona - Italy
10/11 - 06/12   Data collection, feedback analysis and report.
Tools: *Online surveys, Python, Week reports*

Personal

Status: single

Languages:

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Hobbies: Football, horses, Harmonica

Education

2012 - 2014   **MSc in Computer Science and Engineering**   University of Verona. Italy
Thesis in Machine Learning: classifier for personality traits.
final grade: **110/110 with honors**

2008 - 2012   **BSc in Multimedia Information Technology**   University of Verona. Italy
Thesis in Signal processing: speech matching.
final grade: **102/110**

Certifications

03/20	**Convolutional Neural Networks** *Click here to view the certificate*	Coursera Certificates
02/20	**Structuring Machine Learning Projects** *Click here to view the certificate*	Coursera Certificates
08/18	**Improving DNNs: Parameter tuning, Regularization and Optimization** *Click here to view the certificate*	Coursera Certificates
04/18	**Neural Networks and Deep Learning** *Click here to view the certificate*	Coursera Certificates
08/16	**Distributed Machine Learning with Apache Spark** *Click here to view the certificate*	Berkeley (CA) E-learning

Achievements

Professional

Integrity and results orientation — 2019
3 *DRAs*: Division Recognition Awards for the leading (on technical side) AI projects in EMEA for a total of 10 MLN $

Fearless Champion — 2018
1 *DRA*: Division Recognition Awards for the "Fearless attitude" demonstrated in supporting the AI technical engagements in EMEA

Business Idea — 2015
4th placement in the *Start-cup Veneto 2015* competition for business idea named *"Emocounter"*: a portable tool for monitoring the white blood cells.

Robotic-Experience — 2013-2014
MSc class project in **robotics**. The goal was to equip the the **KUKA -- Youbot** robot with a vision system (*Microsoft Kinect®*) in order to make the robot able to to detect, recognize and grasp objects in a **3D space**. *Click here to watch the DEMO*

Academic

Student Career Award — 2014
Selected as Italian student, on the Academic CV basis, for the *Mediterranean Days@Campus SophiaTech*, organized by the University of Nice-Sophia Antipolis.

Publications

[B1] A. Vinciarelli, **Riviera, Walter**, F. Dalmasso, S. Raue, and C. Abeyratna. "What Do Prospective Students Want? An Observational Study of Preferences About Subject of Study in Higher Education". In: *Innovations in Big Data Mining and Embedded Knowledge*. Springer International Publishing, 2019, pp. 83–97.

[C1] D. Brayford, S. Vallecorsa, A. Atanasov, F. Baruffa, and **Riviera, Walter**. *Deploying AI Frameworks on Secure HPC Systems with Containers*. 2019. arXiv: 1905.10090.

[C2] S. A. Abdulhak, **Riviera, Walter**, and M. Cristani. "Crowdsearching Training Sets for Image Classification". In: *Image Analysis and Processing – ICIAP 2015*. Springer, 2015, pp. 192–202.

[C3] G. Roffo, C. Giorgetta, R. Ferrario, **Riviera, Walter**, and M. Cristani. "Statistical Analysis of Personality and Identity in Chats Using a Keylogging Platform". In: *Proceedings of the 16th International Conference on Multimodal Interaction*. ACM. 2014, pp. 224–231.

[W1] S. A. Abdulhak, **Riviera, Walter**, N. Zeni, M. Cristani, R. Ferrario, and M. Cristani. "Semantic-Analysis Object Recognition: Automatic Training Set Generation Using Textual Tags". In: *Computer Vision-ECCV 2014 Workshops*. Springer. 2014, pp. 309–322.

Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR" che si inserisce al termine del proprio curriculum vitae *Walter Riviera*