PERSONAL INFORMATION

Luca Fontanili

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https://github.com/lucafon

Sex Male | Date of birth 22/01/1990 | Nationality Italian

WORK EXPERIENCE

Jan 2020-Present

Innovation Area Manager

Cedacri S.P.A., Collecchio, PR

- Manager of "Innovative Solutions Incubator" Area: main responsibilities R&D, Machine Learning, Data&Analytics, Cloud Journey
- Setup of serveral Data Lakes for different costumers collecting data from MainFrame

Business or sector Data Science, Machine Learning, R&D, Cloud

Feb 2019-Jan 2020

Senior Engineer ML – Data Scientist

myInvenio S.R.L., Reggio Emilia

- R&D Process Mining: applying Machine Learning models to Process Mining
- Data Cleansing
- Speaker at the BPM Next 2019 event
- Continuous Integration/Continuous Delivery with Docker, AWS and Sonarqube
- Full-stack Data Scientist: study, evaluation and put-in-production of different Machine Learning model to enhance the insights gathered with MyInvenio

Business or sector Data Science, Machine Learning, Process Discovery & Mining

Mar 2015-Jan 2019

Computer Engineer – Software Development Leader

Ubiq S.R.L. – SIA Group, Parma/Milan

- Software Development Leader, coordinator of the Back-End development team
- R&D Big Data: use of Cloudera Stack (HDFS, HBase, Solr, Hive, Impala)
- R&D Machine Learning: Study and development of a predictive model that finds similarities between texts of different images using Text Mining and ML techniques
- R&D Computer Vision: Development of a server-side binarization algorithm of raw receipt images using different image processing approaches using OpenCV in Python

Business or sector Computer Engineering, Big Data, Machine Learning

Aug 2014-Feb 2015

Software Engineering Intern

Datalogic ADC Inc, 55 W Del Mar Blvd, Pasadena (CA)

- R&D Computer Vision: working on the parallelization of a Computer Vision algorithm (Zero Mean Normalized Cross-Correlation), using the NVIDIA CUDA framework on a GPU embedded in a SoC (Tegra K1)
- Development of testing programs for Computer Vision software solutions using Python

Business or sector Computer Vision

EDUCATION AND TRAINING

Sept 2012-March 2015

Master's Degree in Computer Engineering

QEQ7

University of Bologna, Bologna

Thesis Development of parallel processing approach to compute Zero-mean Normalized Cross-Correlation. CUDA framework has been used to develop fast approach to detect characters in images, using Template Matching approach, based on Zero-mean Normalized Cross-Correlation measure.
Final Grade 110/110 with Honours

Sept 2009-July 2012

Bachelor's Degree in Computer Engineering

QEQ6

University of Parma, Parma

Thesis A Machine Learning project based on arm gesture recognition and humanoid imitation. Arm gestures are acquired by inertial motion sensors and modelled in an OpenGL 3D virtual space. A new method based on Functional Principal Component Analysis is used in MATLAB for both a supervised clustering of training data and gesture recognition. Recognized gestures are imitated by a small humanoid robot
Final grade 107/110

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C1
	TOEFL iBT, 99/120				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills: Good communication skills gained by holding public speeches about Machine Learning's topics together with the Data Science Group in Parma

Organisational / managerial skills: Excellent social/organisational skills acquired during my experience as Team Leader. During my time in Ubiq I had to completely manage different projects with many clients, organizing work packages and distributing them across the team members.

Job-related skills:
Knowledge of Design Patterns
Programming languages: Java, Python, C/C++, CUDA, R, MATLAB
IDE: IntelliJ, Eclipse, Microsoft Visual Studio, Jupyter, Zeppelin
Technologies: Hadoop, Spring
Cloud Computing: AWS (S3, Glacier, EC-2) and GCP VMs
Agile: Kanban, Jira, SVN, Git, Bitbucket

Other skills
- Sport: American Football, 4 years in the Parma Panthers, playing with American coaches and players. Participation in European Championship with the Italian National American Football team

Driving licence: B (own car)

ADDITIONAL INFORMATION

Publications:
Arm Gesture Recognition and Humanoid Imitation Using Functional Principal Component Analysis,
J. Aleotti, A. Cionini, L. Fontanili, S. Caselli,
IEEE/RSJ International Conference on Intelligent Robotics and Systems (IROS),
Tokyo, November 2013

Honours and awards

Bronze medal of sporting merit given by CONI.

Certifications

Machine Learning, Stanford University, Coursera, #FGYRSK7XD8XG
Using Python for Research, Harvard University, edX, #f079493d7801420388179e219e2a9d63
Process Mining: Data Science in Action, TU/e, Coursera, #R95WTVQ56CQS

Projects

myInvenio - A Process Mining tool to gather insightful from business processes

Ti Frutta – The very first "cash back" app in Italy that allows the customer to earn by shopping

DSS – Hadoop: implementation in Apache Hadoop environment of the Distributed Solving Set algorithm for outlier detection in large distributed data sets, using the MapReduce model

pysqoop: a Python package that lets you sqoop into HDFS data from RDBMS using Apache Sqoop (installable via pip)

Member & Speaker of the Data Science & AI Group in Parma

Other Artificial Intelligence and Machine Learning projects available at my Git repo.

Personal details

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.