

# Alessandro Marrella

hello@alessandromarrella.com | linkedin.com/in/alessandromarrella

## Work Experience

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### Data Scientist

Oct 2016 – Now

AIB, Data Science and Solutions, Dublin, Ireland

- Designed and developed a machine learning solution able to predict and prevent drop offs in customer online journeys in real time leveraging clickstream data
- Developed a metadata-driven ETL application using Python, Scala and Apache Spark able to collect data generated from different sources such as SQL Server and SAP, validate and transform it per the metadata and load it into HDFS, Hive and IBM BigSQL
- Developed an anomaly detection system with a Lambda architecture leveraging Hadoop and Spark able to identify issues on all the online channels and send alerts when the issues are critical

### Master Thesis Internship

Sep 2014 – Oct 2016

ABB AG, Corporate Research, Ladenburg, Germany

Title of the thesis: "Data Anonymization for the Industrie 4.0"

- Developed a tool to collect data anonymization requirements for data analytics
- Implemented and extended of state-of-the-art anonymization algorithms in Python
- Anonymized industrial data for frequent pattern mining and reliability analysis tasks
- Evaluated on the impact of anonymization on data privacy and quality
- Improved existing models from centralized to distributed
- Presented the algorithms and the results to in-house data scientists

## Education

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### Master of Science in Computer Science

Sep 2014 – Oct 2016

Major: Business Informatics

University of Pisa, Italy

GPA: 29.33/30.0 | Final grade: 110/110 *cum laude*

### Bachelor's Degree in Business Administration

Sep 2010 – Sep 2014

University of Verona, Italy

GPA: 27.3/30.0 | Final grade: 109/110

### Exchange year (Erasmus scholarship)

Sep 2013 – May 2014

University College Dublin, Ireland

## Publications

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Marrella, Alessandro, et al. "Privacy-Preserving Outsourcing of Pattern Mining of Event-Log Data-A Use-Case from Process Industry." *Cloud Computing Technology and Science (CloudCom), 2016 IEEE International Conference on*. IEEE, 2016.

## Volunteer

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**Communication Manager** - Erasmus Student Network, Pisa, Italy

Dec 2014 – Jul 2015

**Public Relations Officer** - Erasmus Student Network, Dublin, Ireland

Jan 2014 – May 2015

**Emergency Medical Technician** - Croce Verde, Verona, Italy

Dec 2012 – Sep 2013

## Skills

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Programming languages:	Language agnostic, experience using Scala, Python, Java, SQL, R, C, PHP
Big data technologies:	Spark, Hadoop, Hive, IBM BigInsights
Foreign Languages:	Italian: native, English: fluent, German: basic
Other skills:	Teamwork, Research, Reporting, Problem solving, Critical thinking