Egor Makhov

ML / Data Engineer

PERSONAL INFORMATION

Citizenship	Russian	LinkedIn	egor-makhov
Date of birth	20/04/1994	GitHub	github.com/emakhov
Location	Milan, Italy	E-mail	e.makhov@protonmail.com

LANGUAGES

Russian	Native speaker
English	Fluent
Italian	Limited working proficiency

EDUCATION

expected 2018	**Politecnico di Milano** M.S. in Computer Science Track: Data Engineering Thesis: "Deep learning architectures for event-based cameras"
2017	**Moscow State Institute of Radio Engineering,** **Electronics and Automation (Technical University)** M.S. in Mathematics (5.5 years, Single Cycle programme) Track: Computer Security Thesis: "Clustering algorithms for network intrusion detection systems" GPA: 4.75 out of 5. With honors

WORK EXPERIENCE

March 2017 – Present day	**Big Data engineer** Agile Lab S.R.L, Milano
Main duties	Building analytical applications for main fintech companies in Italy: - Built and tested multiple ETL applications at UBIS (Unicredit Business Integrated Solutions) with Scala, Apache Spark, Akka, Hadoop system stack (Cloudera distribution). - Designed, developed, integrated the core module of Data Quality - the open-source Big Data analytical framework. Contributing new updates on GitHub.
April 2016 – November 2016	**Software Engineer, Internship** i-b.com Innova Et Bella, Milano
Main duties	Was developing the new iteration of BrandMemo platform (the social branding service) and supporting other products of the company. My responsibilities were including: - Data Analysis (Python (numpy, pandas, scikit-learn, xgboost)) - Back-end and Mobile development (Swift, Java) - System administration (Linux)

May 2013 – September 2013	**Research assistant** Moscow State Institute of Radio Engineering, Electronics and Automation (Technical University)
Main duties	Was participating in the machine learning research workgroup: - Implemented cloud computing system building optimizer using MO-ITLBO algorithm with additional advances (mutations). The project was written in Java.

SKILLS

Programming Languages	Scala, Python
Scala libraries	Apache Spark, Akka, Cats, Shapeless, Circe, Play JSON
Python libraries	NumPy, Pandas, Scikit-learn, Xgboost, Matplotlib, Seaborn
Deep Learning	PyTorch, TensorFlow + Keras
Big Data	Cloudera Hadoop distribution (HDFS, Hive, Impala, Kafka, etc.)
Databases	HBase, MySQL, PostgreSQL, SQLite
Web development	Play Framework, Flask
Management	Experienced in use of Agile (Scrum) for software development
Other	UML, git, LaTeX

INDEPENDENT COURSEWORK

January 2017	Functional Programming Principles in Scala, École Polytechnique Fédérale de Lausanne, Coursera
February 2016	Math and Python for Data Analysis, Moscow Institute of Physics and Technology, Coursera
February 2016	Machine Learning Foundations: A Case Study Approach, University of Washington, Coursera
February 2016	Introduction to Big Data Analytics, University of California, Coursera
November 2015	Hadoop Platform and Application Framework, University of California, Coursera
November 2015	Introduction to Big Data, University of California, Coursera
April 2015	Developing Data Products, Johns Hopkins University, Coursera
April 2015	Practical Machine Learning, Johns Hopkins University, Coursera
March 2015	R programming, Johns Hopkins University, Coursera