IVAN BONGIORNI, Data Scientist

Date of birth: March 17, 1988.
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SKILLS

Tools:

- Python and TensorFlow.
- Data Science libraries: pandas, numpy, sklearn, statsmodels, albumentations, matplotlib, seaborn, bs4 for web scraping.
- Big data analytics: Coursera certified on cloud computing on Google Cloud Platform, SQL, introductory Spark, PySpark, Hive.
- Git, version control.
- R.

Machine Learning:

- Language models and recommender systems with RNNs and seq2seq architectures.
- Natural Language Processing: word embedding techniques, PoS and NER classifiers, sentiment analysis, constituency and dependency parsing, text classification.
- Computer vision with CNNs: image classification, denoising autoencoders, GANs.
- Unsupervised learning: Autoencoders, dimensionality reduction, clustering techniques.

PROFESSIONAL EXPERIENCE

GfK — ***Data Scientist***

September 2018 - Present, Milan, Italy

- Sentiment Analysis and NLP techniques for competition-driven price regulation.
- I increased the accuracy of internal Anomaly detection systems using RNNs.
- I traveled and worked abroad with an international team of Data Scientists for GfK Global (Nuremberg and London) at the development of GfK Newron, a data analytics online platform for automated market insights.
- I was nominated Italian technical reference of GfK Newron for customers.
- Customer segmentation with unsupervised Machine Learning.
- Time series forecasts with RNNs and ARIMA regressions.

PERSONAL PROJECTS

- GAN Seq2seq Neural Network for imputation of missing data in time series; trained on Wikipedia Web Traffic dataset (Kaggle).
  https://github.com/IvanBongiorni/GAN-RNN_Timeseries-imputation
- TensorFlow 2 Notebooks on Deep Learning tutorials on multiple Autoencoder, CNN and RNN architectures.
  https://github.com/IvanBongiorni/TensorFlow2.0_Notebooks
- Neural Text generator trained on Dante's *Divine Comedy*.
  https://github.com/IvanBongiorni/TensorFlow2-RNN_text_generator-Dante_DivineComedy

Work in progress:

- Chatbot for Customer Support on Twitter; Seq2seq RNN with Attention.
  https://github.com/IvanBongiorni/Chatbot__Seq2seq-Attention-TensorFlow2

RESEARCH

University of Milan — ***PhD in Political Economy***

January 2014 - May 2018, Milan, Italy

- Statistical research: R programming, time series analysis, event-history models (parametric and semiparametric), multilevel regressions.
- Mathematical theory of games, economic modeling.

University of Michigan — ***Visiting PhD Scholar***
January 2016 - June 2016, Ann Arbor, MI, United States
I worked on statistical analyses of human behaviour with world-renowned scholars, improving my quantitative and analytical skills.

University of Michigan
June 2015 - August 2015, Ann Arbor, MI, United States
I attended courses on R programming, Bayesian statistics, time series analysis and calculus.

University of Mannheim
JUN 2014, Mannheim, Germany
I attended a course on Bayesian statistics.
I won the SGEU (Standing Group of the European Union) tuition grant to access the course.

EDUCATION

University of Pavia — ***Political Science*** ***summa cum laude***
April 2013, Pavia, Italy
- Statistical analysis.
- Economics.
- Philosophy of science.

Erasmus Student: Högskolan Dalarna, Borlänge, Sweden (August 2009-January 2010).

Istituto G. Marconi — ***Computer Science degree***
June 2007, Piacenza, Italy
- Computer Science. Languages: Visual Basic, SQL, C#.
- Statistics, probability theory and combinatorics.
- Calculus.
- Stage: I implemented the management software of fine tickets and car accidents for the local Police department.

ACHIEVEMENTS

- I'm in the world top 0.5% on Data Science StackExchange with tags '*Machine Learning*' and '*Deep Learning*'.
- During my PhD, I was accepted to hold Conferences at the University of Oslo and the University of Hamburg where I presented the results of my statistical analyses.

STRENGHTS

- Oral and written communication.
- Committed to lifelong learning.
- Team building.
- Linguistic skills:
    - native Italian;
    - very fluent English;
    - basic French.
- Linux user.