Curriculum Vitae

Alberto Arletti

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Profile:
I am a Human Scientist. Combining analytical skills with a passion for psychology, I specialize in explaining multi-dimensional digital data on human behaviour. I am results-driven: no data is useful unless it makes a tangible impact on the client. Encompassing a wide range of skills, I contribute across all levels of the Data Scientist role, from gathering data and producing prediction algorithms, to communicating results to stakeholders, to present new action strategies for the future.

Experience

November 2019—Present

Position: Data Scientist
Where: Neosperience s.p.a., Milan, Italy

At Neosperience I worked to create User Insight, a tool that aims at predicting personality from web navigation data and automatically performing personality-based personalisation. My role currently involves:

- Performing algorithm research and development at the intersection of big data and psychology aimed at automatically detect a user's personality from its web navigation data. I led a team of 2 and I managed the design and development of the project.
- Overall responsibility for the quality of data and of predictions towards our customers and stakeholders. This involved presenting and reporting psychological and business-relevant insights from the data in a simple and effective manner to senior Digital Managers of large companies as Benetton and making sure the whole User Insight product workflow was running at its best.
- Working with data engineers in managing the terabytes-large data pipeline (AWS suite, Apache Spark), bringing insight from human behaviour to improve development of the algorithms used to predict personality (random forest, XGBoost) and developing automatic extraction of psychologically salient features from text and product images (Resnet32, topic extraction).

Education

January 2021—present

Course: Statistical Sciences (Part time)
Where: University of Padova, Padova, Italy
Goal: Further developing my foundations in mathematics.
Courses: Calculus (27/30), Advanced Calculus (27/30)

September 2018—November 2019

Degree: Master's Degree in Neuroscience
Where: University of Padova, Padova, Italy
Grade: Distinction, Upper Second Class honours

Relevant courses: Linear Algebra, Thought Psychology (%70).
Supervisor: Prof. Simone Cutini.
Contributions:

- I created a machine learning algorithm to improve fNIRS neuro-imaging signal quality using a linear SVM.
- This resulted in an overall improvement of fNIRS data quality, with a 46% of increase in the biological signal that could be used for analysis.

September 2017— November 2018

Degree: Master's Degree in Cognitive Neuroscience
Where: University College London, London, UK
Grade: Upper Merit
Relevant courses: Statistics (75%), Communication Skills (78%), Neural Mechanisms of Intelligence (66%), Intelligence Training (64%).
Supervisor: Dr. Jeremy Skipper.
Contributions:

- I designed and completed my own experiment with the goal of observing the neural response to a natural stimulus - a movie - using fMRI.
- I reported a significant correlation between brain areas involved in emotional processing - the amygdala - and the use of colour in the movie.

September 2014— November 2017

Degree: Bachelor's Degree in Personality Psychology
Where: University of Padova, Padova, Italy
Grade: First Cum Laude
Relevant courses: Personality Psychology (Excellent 80%), Psychological Testing (Excellent 80%), Statistics (Distinction), Neural Networks.
Research Project: Neuroimaging data extraction and signal to noise ration improvement.

Extracurricular

July 2021— August 2021

Project: Aspire Academy - Summer School
Where: Poiana Brașov, Romania
Activities: Participating in a "one week-condensed MBA" course on leadership held by US professors (Yale, Standford).

Technical experience

Python
Libraries: pandas, numpy, torch, opencv, spacy, matplotlib

Data Engineering
SQL, AWS Suite, Apache Spark

Versioning and env.
git, docker, conda

Languages

Italian, mother tongue; *English*, C2 level; *French*, basics;

MOOC accreditations

Build a Computer: From Nand to Tetris, Jan 2021;
Algorithmic Toolbox, May 2020;
Computer Networking, Dec 2019;