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Data Science Skills

Data Analysis:

- Regression (LM)
- Classification (GLM, KNN, LDA, QDA, NB)
- A/B Testing
- Feature selection procedures
- Cross validation methods
- Bayesian Networks
- Analysis of Variance (ANOVA)
- Principal Components Analysis (PCA)
- Common parametric tests
- Common non-parametric tests

Statistical software packages:

- R
- IBM SPSS statistics
- AgenaRisk
- OpenMarkov
- Excel

Databases:

- SQL (PostgreSQL)

Data manipulation and visualization:

- dplyr
- Tableau
- ggplot2

Languages

- Italian	Native speaker
- English	Highly proficient
- Spanish	Good working knowledge
- Swedish	Basic
- French	Basic

Alessandro Tadei
Data Scientist / Quantitative Researcher

Professional summary

- Quantitative researcher (PhD in Quantitative Psychology in early 2019) with 5+ years of experience in data analysis and application of modern machine learning techniques (portfolio and codes).
- Effective science communicator for diverse audiences with 600+ hours of teaching applied Frequentist and Bayesian Statistics and 10+ presentations in international conferences.
- Proven ability to meet tight deadlines by working in fast-paced work environments and extensive experience in multicultural teamwork.

Work experience

Researcher, PhD student, *Åbo Akademi University*   2013 – present
- Highly proficient in R, SPSS, Bayesian Networks, PostgreSQL, Tableau.
- First author in six research projects, entirely conducted from study design and data collection to publication of the results.
- Developer of two highly accurate naïve Bayes classifiers to support Finnish police investigations, also cited by the Finnish national media. User Experience tested and monitored.
- Mentor in statistics for peers and students since 2014.
- Winner of over 100,000€ in research grants, of the 3MT Coimbra Group Pitch Competition, and of the Edward Schaeffer Award for the Best Research Presentation in Atlanta (GA), USA.
- Responsible for Master level courses and specialization classes on the use of machine learning and Bayesian Networks in decision-making.

Lecturer and Tutor, *United Nations*   2015 – 2017
- 500+ hours of lecturing and tutoring international students within two editions of the International Expert Programme in Investigative and Legal Psychology. Topics: Applied Statistics, Machine Learning and Bayesian Networks.

Education

Åbo Akademi University, PhD in Psychology   2013 – present

Università di Torino, Master in Investigative Psychology   2011 – 2013
Grade: 110 cum laude/110

Università di Torino, Bachelor in Psychology   2007 – 2010
Grade: 110/110

Other relevant experiences and courses

- Data science projects on: A/B test on Big Data; Web Scraping and Data Pipelines; Predicting Stock Market; Cars Fuel Consumptions Analysis.
- Courses in R and PostgreSQL (www.datacamp.com).
- Doing Research in the Human Sciences (Åbo Akademi University).
- Academic Communication and Effective Presentation Skills (Dopsy Symposium, 2 days).