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Data Science Skills

Data Analysis:

- Regression and Classification techniques (CART, GLM, KNN, LDA, QDA, NB)
- Unsupervised learning
- A/B Testing
- Feature selection procedures
- Cross-validation methods
- Bayesian Networks
- Analysis of Variance (ANOVA)
- Common (non-) parametric tests

Statistical software packages:

- R
- IBM SPSS statistics
- OpenMarkov for Bayesian Networks

Databases and Schedulers:

- SQL (Hadoop Hive, Exasol)
- Airflow

Data manipulation and visualization:

- dplyr
- Tableau
- ggplot2

Languages

- Italian — Native speaker
- English — Highly proficient
- German — Basic (A2)
- Spanish — Basic (A2)

Dr. Alessandro Tadei
Manager Product Analytics at XING Marketing Solutions

Professional summary

- PhD in Quantitative Experimental Psychology with 8+ years of experience in data analysis and application of modern machine learning techniques, both in academic and business environment.
- 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 manage long-term projects and to lead multicultural teams in delivering high quality results.

Work experience

Manager Business Analytics – Product   2019 - present
XING Marketing Solutions (DE)

- Responsible for all Product analytics: demand/supply monitoring, A/B testing, data structure and ETL processes optimization, data insights presentation and visualization, cross-team collaboration.
- Creator of an automated forecasting tool that uses machine learning to compare current and predicted performance. Outputs and alerts are automatically sent via email and visualized in Tableau.
- Creator of a live anti-fraud tool implemented in R and Airflow.

Research Lead and Data Scientist   2013 - 2020
Åbo Akademi University (FI)

- Research lead in six projects, entirely conducted from study design and data collection to publication of the results, coordinating teams of 5-10 data scientists and researchers.
- Developer of two highly accurate naïve Bayes classifiers to support Finnish police investigations, also cited by the Finnish national media (link1, link2).
- Winner of over 100,000€ in research grants, of the 3MT Coimbra Group Pitch Competition, of the Edward Schaeffer Award for the Best Research Presentation in Atlanta (US), and of the Elvings Award for best PhD Thesis of 2020 at Åbo Akademi Univ.
- Main lecturer in Master level courses and specialization classes on the use of machine learning and Bayesian Networks in decision-making.

Lecturer and Tutor   2015 - 2017
United Nations (IT)

- 500+ hours of lecturing and tutoring international judges, lawyers, and prosecutors in the use of analytics in their daily job.
- Active member of the team that designed the UN International Expert Programme in Investigative and Legal Psychology.

Education

- **PhD with Honors in Quantitative Experimental Psychology**, Åbo Akademi University (video public defense)
- **Master in Investigative Psychology**, Università di Torino
  Grade: 110 cum laude / 110
- **Bachelor in Psychology**, Università di Torino
  Grade: 110 / 110