Gennaro Tedesco

Curriculum Vitae

Current Position

Tech lead data science at Billie, Berlin (with internal management training).

Responsible of a team that develops machine learning services in the payment and identification domain: we validate payments, detect suspicious buyers, identify credit risk and assess legal status of customer requests. My role is to supervise the entire development process, from the initial business requirements through the scientific phase of model development until service integration in our platform. Moreover, I am supervising the MLOps group with the aim of unifying the whole data science infrastructure.

Experience

2019–present **Senior data scientist**, Billie, Berlin.
Introduction and development of the entire area of NLP in the financial domain to assess risk and detect fraud. Language model classification with general deep learning algorithms on structured text; time series analyses in the financial domain and test of hypotheses for statistical significance. Development and deployment of (internal) applications for business intelligence.

2016–2019 **Data scientist**, Leverton, Berlin.
Development of deep learning models in NLP with corresponding classification algorithms. Implementation of predictive models, time series analyses and hypotheses tests. Development of internal applications for business intelligence.

2015–2016 **Data scientist**, HelloFresh, Berlin.
Development of prediction and forecasting models for customers churns and acquisitions. Study of time series behaviours, network analyses, implementation of machine learning algorithms for classification and regression.

2014–2015 **Data Analyst**, Bank of America Merrill Lynch, London.

Academic Education

2011–2014 **PhD in theoretical physics**, Georg August University of Göttingen, magna cum laude. PhD thesis *"Modular structure of chiral Fermi fields in low dimensional conformal field theory"*.

2009–2011 **Master degree in theoretical physics**, University of Naples, 110/110 cum laude. Thesis *"Discrete quantum field theory of the gravitational field"*.

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Projects:

- Author of several neovim plugins and command line applications
- Active contributor to neovim and other open-source projects and libraries
- Speaker at various meetups in advanced statistics for machine learning, MLOps, data version control, DVC, neovim and general open source

Computer languages

Languages	Python, R, SQL, Go, Lua, Rust, bash, awk, LaTeX
Deployment	Docker, Git, DVC, make
CLI	jq, visidata, sed, awk, GNU core utils
BI	Tableau, Sisense

Languages

Italian	**Mother tongue**
English	**Fluent**
German	**Good knowledge**

Publications

- G. Tedesco: *"Modular structure of chiral Fermi fields in conformal quantum field theory"*; eDiss SUB Göttingen
- K. -H. Rehren, G. Tedesco: *"Multilocal Fermionization"*; Lett. Math. Phys. **103** (2013) 19 [arXiv:1205.0324 [math-ph]].

Unpublished material

- G. Tedesco: *Introduction to the theory of connections on principal bundles*;
- G. Tedesco: *Generalised Efron's dice problem: simple solutions*;
- G. Tedesco: *R for data science*;

Interests

- I play basketball and chess in my spare time (less often tennis and volleyball)
- I played a major role in a short film (available online) about cultural exchanges among different countries at high academic level.