Gennaro Tedesco

Curriculum Vitae

Current Position

Senior data scientist at Billie, Berlin.

Introduction and development of the entire area of NLP in the financial domain to assess risk and detect fraud. Language model classification and general deep learning algorithms for prediction; predictive models and time series analyses on large sets of data; test of hypotheses for statistical significance. Development and deployment of (internal) applications for business intelligence.

Experience

2019–present **Senior data scientist**, Billie, Berlin.
Responsible for building and developing NLP models to assess financial risk and fraud detection. Vectorisation and classification of free text, application of general deep learning models to finance, credit risk and 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 interal 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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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Unpublished material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*;

Projects:

- I am the author of several neovim plugins and command line applications
- I am contributor to a few Berlin meetups: vim, machine learning, advanced statistics

Computer languages

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

Languages

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

Interests

- Basketball, volleyball, chess, tennis, travelling.
- I played a major role in a short film (available online) about cultural exchanges among different countries at high academic level.