Gennaro Tedesco

Curriculum Vitae

Current Position

Tech lead for product analytics at Billie, Berlin.

Responsible of a team that develops machine learning services to support our core business. Among other things, we produce models that help identify credit risk for factoring transactions, assess legal status of customer requests, validate payments and detect suspicious 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.

Experience

2019–2021 **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 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"*.

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Unpublished material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:

- Author of several neovim plugins and command line applications
- Contributor to open-source projects and libraries (bug fixes, patches)
- Contributor to various online meetups: vim, machine learning, advanced statistics

Computer languages

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

Languages

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

Interests

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