Gennaro Tedesco

Curriculum Vitae

Current Position

2023–present: **Team lead artificial and document intelligence** at Finlink, Berlin.

Responsible of a team of software and machine learning engineers implementing and integrating machine learning models and document intelligence into our software. We replace several aspects of manual work with fully automated solutions, such as document classification, information extraction, text generation, data validation and more with the help of latest developments in LLMs and machine learning agents. Our solutions are used by both banks and independent advisors. My role as manager is to ensure that company objectives are efficiently translated into our software, as well as to supervise the entire development and infrastructure process.

Experience

2021–2023 **Tech lead data science**, Billie, Berlin.
Team lead supervising development of machine learning services in payment and identification domain: payment validation, identification of suspicious buyers and credit risk. My role was to direct the entire development process, from the initial business requirements through the scientific phase of model development until service integration in our platform.

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 (also ARIMA) 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.

Frameworks and computer languages

Languages	Python, R, Go, Lua, SQL, bash, awk, LATEX, Rust
ML	Pytorch, Tensorflow, Keras, HuggingFace, openAI, BERT
Infrastructure	Docker, Kubernetes, AWS, Azure, Kafka, Redis
Cli	jq, visidata, sed, awk, dvc, gnu core utils
Monitoring	Grafana, Kibana, Tableau, Sisense

Personal projects:

- Author of several neovim plugins and command line applications
- Invited speaker for podcasts and meetups

I regularly contribute to open source projects, mainly in the area of cli programmes and neovim codebase.

Thanks to my last two employers I have undergone management training focussed on leading software teams in growing companies, as well as conflict resolution.

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"*.

2005–2011 **Master degree in theoretical physics**, University of Naples, 110/110 cum laude. Thesis *"Discrete quantum field theory of the gravitational field"*.

Languages

Italian	**Mother tongue**
English	**Fluent**
German	**Very good**
Chinese	**HSKI**

Interests

- I play basketball and chess in my spare time and hold a chess arbiter license
- I played a major role in a short film (available online) about cultural exchanges among different countries at high academic level