

# Luigi Noto

luiginoto35@gmail.com · linkedin.com/in/luiginoto · github.com/luiginoto · luiginoto.github.io

## EDUCATION

**New York University**, New York, NY

May 2023

*MS in Data Science*, GPA: 3.97/4.0

- Relevant coursework: **Probability and Statistics**, Optimization and Linear Algebra, **Machine Learning**, **Big Data**, Natural Language Processing, Inference and Representation, **Deep Learning**

**Bocconi University**, Milan, Italy

July 2021

*BS in Economics, Management and Computer Science*, Grade: 110/110 cum laude

- Relevant coursework: Advanced Mathematics and Statistics, **Computer Programming**, Machine Learning, Decision and Game Theory, Big Data and Databases

## EXPERIENCE

**New York Life Insurance Company**, New York, NY

October 2023 - Present

Data Scientist, Senior Associate

- Developing pipelines to consolidate client transactional data across multiple tracking systems.
- Building **fraud detection** models to proactively identify fraudulent activities on client accounts, resulting in over \$1M of fraud loss prevented per year.
- Continuously refining models by expanding data coverage and testing new methodologies to capture evolving fraud patterns ( $\sim 2.5x$  increase in recall and  $\sim 4x$  increase in potential savings with new iteration).

**New York Life Insurance Company**, New York, NY

June 2023 - September 2023

Data Science Intern

- Designed and implemented a **data ingestion** pipeline for acquiring and preprocessing public demographic data at Census block group level ( $\sim 2K$  variables for  $\sim 240K$  block groups).
- Analyzed and consolidated data from multiple sources, including lead capture details, website activity tracking, public demographics and internal client information.
- Developed **lead scoring** model (XGBoost) to predict lead conversion probability (0.73 AUC).

**Zillow / New York University**, New York, NY

September 2022 - December 2022

Data Science Capstone Project

- Developed **neural re-ranking** systems (listwise modeling with self-attention encoding layer) for context-aware personalized home search using Zillow search event data.
- Obtained higher ranking quality (2% increase in NDCG@10) with respect to Zillow's current ranking model.

**Barclays**, Knutsford, UK

July 2020 - August 2020

Technology Data Analyst Intern

- Consolidated and **analyzed data** about total cost of ownership and technical debt of the technology infrastructure to highlight trends and cost optimization opportunities, using SQL and data analysis software.
- Automated **data validation** and **data concatenation** tasks with Excel VBA macros and Python, saving 3-5 hours of manual work per week.

## SELECTED PROJECTS

**Cross-lingual Fake News Detection.** Investigation of a meta-learning approach to **few-shot cross-lingual adaptation** for document classification with an application to cross-lingual COVID-19 fake news detection in low-resource languages. The experiments demonstrate the ability of the meta-learning approach to outperform classical multilingual models for fake-news detection.

## SKILLS

<b>Computer</b>	Advanced Knowledge: <b>Python</b> (Numpy, Pandas, Polars, SciPy, Matplotlib, Sklearn, PyTorch) Very Good Knowledge: <b>SQL</b> , R, Git, <b>Spark</b> (PySpark), Hadoop, Hive, Redshift, MS Excel
<b>Language</b>	Italian (Native), English (Fluent)

I hereby authorize the treatment of my personal data according to the local law.