Luigi Noto

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EDUCATION

New York University, New York, NY

- MS in Data Science, GPA: 4.0/4.0
 - Relevant coursework: **Probability and Statistics**, Optimization and Linear Algebra, **Machine Learning**, **Big Data**, Natural Language Processing, Inference and Representation

Bocconi University, Milan, Italy

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
- Thesis: Bayesian Learning: Clustering with the Dirichlet Process Mixture Model

EXPERIENCE

Zillow / New York University, New York, NY

Data Science Capstone Project

- Currently working on improving Zillow search engine for personalized home search experience.
- Implementing **neural re-ranking** models (SetRank, PRM) to increase user engagement.

New York University, New York, NY

Graduate Research Assistant - Agile Robotics and Perception Lab

- Analyzed quadrotor trajectory data with **dimensionality reduction** techniques (t-SNE).
- Developing **meta-learning** methods to improve online learning of quadrotor system dynamics.

Bocconi University, Milan, Italy

Undergraduate Research Assistant

- Performed literature review and implemented computational algorithms about discrete space stochastic processes and their application to Monte Carlo methods.
- Contributed to improvement of teaching material for bachelor class in **applied stochastic processes**.

Barclays, Knutsford, UK

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.
- Implemented **data integrity checks** and automated **data concatenation** tasks with Excel VBA macros and Python, saving 3-5 hours of manual work per week.

SELECTED PROJECTS

MovieLens Recommender System. Built and evaluated a collaborative filtering recommender system with Spark alternating least squares (ALS) implementation using the MovieLens dataset. Implemented accelerated search at query time using Spotify's Annoy fast search library, with a 15x decrease in query time.

Loan Default Prediction. Trained and evaluated classification models to predict the default probability on a loan with data about US small businesses (XGBoost with 93% accuracy, 93% sensitivity, 93% specificity on test).

Analysis of Weather Data in Australia. Performed hypothesis testing (resampling methods) on temperature data to investigate climate change. Trained and evaluated classification models to predict next day rain occurrence (XGBoost with 0.90 test AUC and 0.75 test average precision score).

SKILLS

Computer	Advanced Knowledge: Python (Numpy, Pandas, SciPy, Matplotlib, Scikit-learn, PyTorch) Very Good Knowledge: SQL , R, Latex, MS Excel Intermediate Knowledge: Spark (PySpark), Hadoop, Git
Language	Italian (Native), English (Fluent), French (Basic)

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

June 2022 - Present

September 2022 - Present

March 2021 - June 2021

July 2020 - August 2020

Expected May 2023

July 2021