Luigi Noto

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EDUCATION

New York University, New York, NY

Expected May 2023

MS in Data Science, GPA: 4.0/4.0

Relevant coursework: Probability and Statistics, Optimization and Linear Algebra, Machine Learning,
 Big Data, Information Theory, Natural Language Processing, Inference and Representation

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

EXPERIENCE

New York University, New York, NY

June 2022 - Present

Graduate Research Assistant - Agile Robotics and Perception Lab

• Developing robust **Meta-Learning** methods to improve active learning of quadrotor system dynamics.

Bocconi University, Milan, Italy

March 2021 - June 2021

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

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

SELECTED PROJECTS

MovieLens Recommender System and Extensions. Built and evaluated a collaborative filtering recommender system with Spark alternating least squares (ALS) implementation using the MovieLens dataset. Compared Spark's parallel ALS model to LensKit single-machine implementation in terms of efficiency and performance. Implemented accelerated search at query time using Spotify's Annoy spatial data structure.

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).

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

SKILLS

Computer Advanced Knowledge: Python (Numpy, Pandas, SciPy, Matplotlib, Scikit-learn, PyTorch)

Very Good Knowledge: SQL, R, Latex

Intermediate Knowledge: Spark (PySpark), Hadoop, Git

Language Italian (Native), English (Fluent), French (Basic)

HONORS AND ACTIVITIES

• 3rd place at Vodafone Data Science Hackathon out of 40 participating teams (February 2021)

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