

Luigi Noto

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EDUCATION

New York University, New York, NY Expected 05/2023

MS in Data Science, GPA: 4.0/4.0

- Relevant coursework: Probability and Statistics, Optimization and Linear Algebra, Machine Learning, Big Data, Information Theory

Bocconi University, Milan, Italy 07/2021

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 06/2022 - present

Graduate Research Assistant - Agile Robotics and Perception Lab (ARPL)

- Researching and applying robust deep learning methods to improve active learning of quadrotor discrete dynamics.

Bocconi University, Milan, Italy 03/2021 - 06/2021

Undergraduate Research Assistant

- Literature review of discrete space stochastic processes and their application to Monte Carlo methods to improve teaching material of bachelor class in Applied Stochastic Processes.

Barclays, Knutsford, UK 07/2020 - 08/2020

Technology Data Analyst Intern

- Consolidated and analyzed data about Total Cost of Ownership and Technical Debt of the bank 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 model 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 validated ML classification models to predict next day rain occurrence (XGBoost with 0.90 test AUC, 0.75 test average precision score).

Loan Default Prediction. Trained and validated ML classification models to predict the probability of default on a loan with a dataset about US small businesses (XGBoost with 0.93 test accuracy, 0.93 test sensitivity).

SKILLS

Computer Python, Numpy, Pandas, SciPy, Matplotlib, Scikit-learn, xgboost, PyTorch, Latex, R, SQL, Spark (PySpark), Git

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

HONORS AND ACTIVITIES

- 3rd place at Vodafone Data Science Hackathon out of 40 participating teams (03/2021)
- Bocconi Merit Award, awarded to outstanding students based on academic standing (10/2020)
- Member of *Bocconi Students for Data Science* student association (09/2019-07/2021)

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