Giacomo Cirò

BSc in Economics, Management and Computer Science

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ABOUT ME

I am a highly motivated and curious student currently pursuing a BSc in Economics, Management, and Computer Science at Bocconi University in Milan.

My true passion lies in Mathematics, Statistics and Computer Science: I am deeply fascinated by the endless possibilities that technology offers and by the rigor and precision of mathematical concepts. I am constantly driven to study and discover, eager to expand my knowledge and understanding of the world. I thrive on the challenge of pushing my limits and continuously improving myself, both intellectually and professionally, exploring the ever-evolving landscape of the world I live in.

EDUCATION

- **Università Commerciale Luigi Bocconi** *September 2021 - July 2024*
  BSc in Economics, Management and Computer Science Milan, Italy

  - **Current GPA**: 29.45/30
  - **No. passed exams**: 19 out of 27 (123/180 CFU)
  - **Relevant coursework**: Linear Algebra, Calculus, Probability, Advanced Statistics, Game Theory, Macroeconomics, Finance, Machine Learning, Computer Programming, Big Data & Databases

- **Liceo Scientifico** *September 2016 - June 2021*
  I.I.S. Allende-Custodi, Milan (MI), Italy Milan, Italy

  - Gradutation GPA: 100/100

WORK EXPERIENCE

- **R.A.D. Sicherheit GmbH** *September 2023 - present*
  Access Control Köln, Germany
  - Together with my team, I provide access control services for the Paddock Club™ at F1 Grand Prix all around the world, managing the flow of thousands of guests.

- **BSML | Bocconi Students for Machine Learning** *June 2023 - present*
  Co-founder & Board Member & Head of Production & Project Lead Milan, Italy
  - Conceived and co-founded (collected 150+ signatures) the first Machine Learning Students Association at Bocconi University, with the goal of connecting people, not only layers;
  - Created the website (here) and all the other social network profiles;
  - Managed the initial promotion, recruiting and interviewing process;
  - As Head of the Production division, my responsibility is to coordinate members in the analysis of research papers, articles and news, creation of resources and management of social media presence;
  - As Project Lead, I am currently leading a team in conducting the research "Gender Bias in Song Lyrics: a Language Specific Analysis" (see next section for details).
  - As Board Member, I contribute in shaping the association goals and activities.

- **Ripley SRL** *June 2022 - present*
  Steward Milan, Italy
  - I work at numerous events for major brands such as Ferrari, IBM, Loro Piana, Disney etc.

- **Altatto** *June 2022 - present*
  Waiter Milan, Italy
  - I provide my service at weddings and other kinds of catered events, contributing to a seamless and enjoyable dining experience for guests.

- **Self-Employed** *September 2019 - present*
  Mathematics Tutor Milan, Italy
  - I enjoy sharing my knowledge and passion for math with young students, providing my support to help them overcome academic challenges.

Relevant Projects and Research Activity

•**Subleasy** *October 2023 - present*
Start-up

- Together with other students, I'm developing a start-up to be presented to Bocconi University's acceleration program (b4i). Our idea is to create a platform to match supply and offer in the subletting market and use machine learning techniques to optimize it.

•**Evolutionary Neural Architecture Search** *October 2023 - present*
NAS, Evolutionary Computing

- Under the supervision of professor Luca Saglietti, I'm researching innovative ways to optimize neural network architecture applying insights from evolutionary computing theories.

•**Gender Bias in Song Lyrics: a Language Specific Analysis** *September 2023 - present*
Python, Psychology, Natural Langauge Processing

- Is there evidence of gender bias in song lyrics when considering different languages separately and independently? How do these different examples of gender bias relate to one another? What are the differences and similarities of gender biases across distinct languages? Together with two other associates from BSML I'm trying to answer these questions under the supervision of professor Rafael Jiménez-Durán (project page here).

•**Words Generator** *June 2023*
Python, Generative AI Models

- I trained a collection of neural networks on different corpora of existing words to make them capable of generating novel, non-existent words that possess a striking resemblance to real ones. I eventually deployed the final model as a user-interactive and free-access web-app (GitHub Repo here) (interactive WebApp here).

•**F1 Race Analysis** *June 2023*
Python, Data Analysis, Data Visualization, Data Mining

- I created a web app to display some statistics and insights from the first ever to the most recent Formula 1 Grand Prix, automatically updated after each race (GitHub Repo here) (interactive WebApp here).

•**Online Data Manipulation Interface** *June 2023*
Python, Data Manipulation

- I assisted my father by automating data manipulation tasks for his work-related data (he is an oncology researcher). The final product was an online interface he could access from anywhere, where he could update a .tsv file containing data from some experiment he performed and download a .csv file processed as he desired, with some parameters that could be tweaked at each time a request is submitted.

•**Production Function Estimation** *May 2023*
R, Panel Data Analysis, FE/RE Model

- My group and I applied Panel Data Analysis tools, such as the Fixed Effect (FE) and Random Effect (RE) models to identify the individual-specific and time specific latent heterogeneity and provide a statistically relevant estimation of the production function of a firm (GitHub Repo here).

•**House Price Predictor** *April 2023*
Python, Random Forest Regressor, Neural Network, Linear Regression

- I developed, trained and tested three different machine learning models to predict the price of several houses in Milan, Rome and Venice (45k +). I then developed a user-interactive and free-access web app to deploy the trained model (GitHub Repo here) (interactive WebApp here).

•**Taylor Rule Estimation by OLS** *March 2023*
R, Linear Regression

- My group and I estimated Austria's interest rate through the application of Ordinary Least Squares (OLS) regression and the insights provided by Taylor's rule. We retrieved the data related to the macroeconomics indicators needed and successfully estimated the target variable, carefully performing essential diagnostic checks on the obtained results to ensure robustness and accuracy (GitHub Repo here).

•**Paprika & Disaronno** *January 2022*
NFTs, ETH, Blockchain, Polygon

- Conceived, designed and minted an NFT collection publicly listed on OpenSea (here) from some of my hand-drawn pieces.

Additional Information

- **Technical skills**: Python (NumPy, Pandas, Seaborn, Matplotlib, PyTorch, Sklearn, Streamlit); Microsoft Office (Excel, Word, Powerpoint); Adobe Creative Cloud (Acrobat, Photoshop, Illustrator, Premiere Pro); R (Linear Regression, Panel Data Analysis); Stata (Linear Regression, Panel Data Analysis); HTML, CS, JS (basic knowledge and understanding); Knime Analytics Platform.

- **Languages**: English (C1 - Fluent - IELTS 8.0); Italian (Native); Spanish (B1 - Basic - Bocconi Exam).

- **Community Involvement**: AGESCI Boy Scout in Milan, Italy for 10 years from 2009 to 2019. I completed my official journey, but I still take part in camps to help entertaining the kids and cooking for them.

- **Sport**: I have played rugby in major italian leagues for CUS Milano from 2010 to 2023, when I decided to start practicing boxe.

- **Interests and more**: I love art and working out, in fact I covered my garage-gym with spray-painted pieces. I draw pleasure from creating and witnessing creativity, the best legacy you can leave behind is something new and unheard of. I like poetry, Comedy and TV Shows. I used to play drums and I'm now learning to play the piano. I'm keen on unleashing my curiosity, I accumulated hundreds of hours of tutorials and podcasts on the most diverse topics.