

# Matei Gabriel Cosa

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## EDUCATION

- **Bocconi University** Milan, Italy  
Bachelor of Science in Economics, Management and Computer Science; GPA: 30.57/30 Cum Laude Sep 2021 - Present
  - **Recipient of Bocconi Excellence Award:** Scholarship awarded to the top 15 students from all programs based on GPA
  - **Relevant Coursework (First & Second Years):** Machine Learning, Applied Mathematics, Advanced Statistical Methods, Computer Programming, Fundamentals of Computer Science, Principles of Finance, Econometrics
- **Mihai Viteazul National High School** Bucharest, Romania  
High School Diploma in Mathematics and Computer Science (Intensive Computer Science); GPA: 9.91/10 Sep 2017 - Jun 2021

## TECHNICAL SKILLS

- **Programming/Scripting Languages:** Python (including NumPy, SciPy, Matplotlib, scikit-learn, pandas, PyTorch), R (including some Tidyverse packages), SQL, PL/SQL, C++ (limited programming proficiency), Unix/Linux commands, Latex
- **Software:** Microsoft Office, Jupyter Notebooks & Anaconda Distribution, Tableau (basic usage)

## EXPERIENCE

- **Bocconi Institute for Data Science and Analytics** Milan, Italy  
Research Intern Jan 2023 - Present
  - **Job Description:** Currently working in the Bayesian Learning lab under the supervision of Statistics prof. Omiros Papaspiliopoulos. Conducting literature review on unsupervised learning and principal component methods. Preparing Jupyter Notebooks on topics such as high-dimensional data visualizations, recommender systems and matrix completion algorithms, to be used during the Bocconi Summer School.
- **Orange** Bucharest, Romania  
ERP Development & Database Systems Summer Intern Jun 2022 - Aug 2022
  - **Job Description:** Worked for the Data, AI & Enterprise Solutions Department of Orange Romania S.A. Contributed to the implementation of the SAF-T (Standard Audit File for Tax) reporting format into Oracle E-Business Suite.
  - **Problem Solving:** Analyzed the business task and came up with solutions for gathering, organizing and processing sizeable amounts of data required by the tax authority. Optimized SQL queries by indexing existing tables, creating temporary tables and caching data to avoid repeating the same processes, thereby lowering the execution time of some reports by 30% to 50%.
  - **Skills:** Used SQL and PL/SQL and leveraged accounting and economic knowledge to translate the business task into efficient and robust code. Was exposed to API's and Linux/Unix commands, as well as corporate workflows for software development.

## EXTRACURRICULAR ACTIVITIES

- **Bocconi AI & Neuroscience Student Association** Milan, Italy  
Active Member Oct 2022 - Present
  - **Research Associate:** Member of a team working on building a knowledge graph of the entire English Wikipedia under the supervision of Computing Sciences prof. Luca Saglietti. Processed and cleaned 70GB of data to obtain a directed graph containing 5.8 million nodes and 140 million edges. Implemented Dijkstra's algorithm and currently experimenting with NLP solutions to assess the similarity between different pages.
- **Bocconi LearningNeeds Peer-to-Peer Initiative** Milan, Italy  
Volunteer Oct 2022 - March 2023
  - **Mathematics Tutor:** Helped Bocconi students with Specific Learning Disorders(SpLDs) understand and apply introductory college-level mathematics with a special emphasis on linear algebra and real analysis.
- **Model United Nations of Bucharest** Bucharest, Romania  
President of the General Assembly & Club Co-Leader Jun 2018 - Aug 2020
  - **Leadership & Team Work:** Managed an organizing team of approx. 50 people working in areas such as finance, accommodation, press, entertainment and IT. Planned the largest Model United Nations conference for high school students in Romania attended by 300 students from 8 different countries.

## LICENSES & CERTIFICATIONS

- **Google Data Analytics Certificate:** Learned how to clean, process and analyze data with Google Sheets/Microsoft Excel, SQL and R. Was introduced to data visualization techniques using Tableau and R. Also developed presentation and communication skills, especially in regard to a non-technical audience.
- **Oracle Database Design Certificate:** Learned about relational databases, entity-relationship diagrams and normalization rules. Practised writing SQL queries and working with data.
- **IELTS English Language Certificate:** Demonstrated the C2 proficiency level by obtaining a score of 8.5/9.
- **Goethe Zertifikat B1:** Obtained the B1 proficiency level (basic conversational proficiency in German).