

Paolo Astrino

Email: paoloastrino01@gmail.com

LinkedIn: www.linkedin.com/in/paolo-astrino-9792061a3

GitHub: <https://github.com/PaoloAstrino>

Portfolio: <https://paoloastrino.github.io/>

Location: Padova, Italy



PROFESSIONAL SUMMARY

Freelance Developer and Data Analyst specializing in AI and machine learning solutions. Experienced in leveraging data-driven approaches to solve complex challenges, with a proven track record in research and development, including published work on retrieval-augmented generation.

SKILLS

- **Programming & Data Analysis:** Python (Pandas, NumPy, Matplotlib), R (R Studio), VBA for Excel, SQL
- **Machine Learning & AI:** Scikit-learn, PyTorch, TensorFlow, NLP, Retrieval-Augmented Generation, Local AI, GPU Computing
- **Data Visualization:** Power BI, Excel Charts; Python Plotting Libraries
- **Databases:** PostgreSQL, MySQL, SQLite
- **Statistical Analysis:** Hypothesis testing, Regression, Forecasting
- **Process Optimization:** Automating workflows, performance monitoring
- **Soft Skills:** Communication, Decision-making, Problem-solving, Teamwork

PUBLICATIONS

- **CUBO: Self-Contained Retrieval-Augmented Generation on Consumer Laptops**
arXiv:2602.03731 (Feb. 2026)
<https://arxiv.org/abs/2602.03731>
- **Local Hybrid Retrieval-Augmented Document QA**
arXiv:2511.10297 (Nov. 2025)
<https://arxiv.org/abs/2511.10297>

WORK EXPERIENCE

Junior Developer — Freelance

Jul 2025 – Present

- Developed responsive front-end components using React, focusing on user experience.
- Built and maintained backend services with Node.js.
- Applied Python for data processing and automation tasks.

Credit Analyst — Power 4U

March 2025 – May 2025

- Analyzed large volumes of customer portfolio and payment behavior data using Excel (advanced formulas and pivot tables)
- Supported strategic decisions through data-driven insights, identifying credit risk patterns and predicting potential insolvencies.
- Maintained high standards of data quality, consistency, and documentation for audit readiness.

Junior Data Analyst & Back Office — Adecco May 2023 – Sept. 2023

- Monitored personnel and vehicle costs, improving cost efficiency.
- Developed Excel VBA macros, automating repetitive tasks and saving 10+ hours per week.
- Provided operational support to the Site Manager and coordinated with Team Leaders across Italy.

Event Planner — Freelance

Feb. 2020 – July 2024

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- Managed event budgets and logistics, ensuring cost-effective execution.
 - Supervised supplier and stakeholder relationships, enhancing operational efficiency.
 - Coordinated catering, bartending, and entertainment services, ensuring high-quality experiences.

EDUCATION

- **Master's Degree in Data Analytics for Business and Society**
Ca' Foscari University (2023 – 2025)
- **Intelligent Systems (Erasmus+)**
Universitat de les Illes Balears (2024 – 2025)
- **Bachelor's Degree in Economics**
Università degli Studi di Padova (2020 – 2023)
- **Business Administration & Management (Erasmus+)**
European-University Viadrina (2022 – 2023)
- **High School Diploma in Applied Sciences**
Liceo Fermi, Padova (2015 – 2020)

CERTIFICATIONS

- **Machine Learning Specialization** - Coursera (Feb. 2024)
- **B2 English Certification** - Ca' Foscari Linguistic Centre (Sept. 2023)
- **Workplace Health and Safety Training** - University of Padua (Jan. 2023)

LANGUAGES

- Italian - Native
- English - Upper-Intermediate (B2)