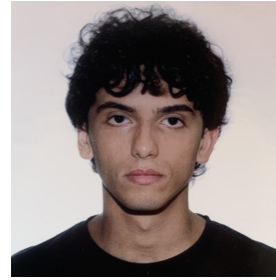


# Paolo Astrino

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LinkedIn: [www.linkedin.com/in/paolo-astrino-9792061a3](https://www.linkedin.com/in/paolo-astrino-9792061a3)  
GitHub: <https://github.com/PaoloAstrino>  
Portfolio: <https://paoloastrino.github.io/>  
Location: Padova, Italy



## PROFESSIONAL SUMMARY

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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

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- **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

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- **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

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### 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

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- 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**

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- **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**

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- **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**

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