

FLORIN CUCONASU

Rome, Italy

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EDUCATION

[NATIONAL PHD IN ARTIFICIAL INTELLIGENCE](#)

1st year PhD Student at Sapienza University of Rome

November 2023 – (November 2026)

Rome, Italy

MS IN ENGINEERING IN COMPUTER SCIENCE

Sapienza University of Rome

- 110/110 cum laude & Honors Program

September 2021 – October 2023

Rome, Italy

BS IN INFORMATION ENGINEERING

Sapienza University of Rome

- 110/110 cum laude & Honor Mention

September 2018 – October 2021

Rome, Italy

PUBLICATIONS

The Power of Noise: Redefining Retrieval for RAG Systems [\[link\]](#)

SIGIR, 2024

RRAML: Reinforced Retrieval Augmented Machine Learning [\[link\]](#)

AixIA Conference, 2023

EXPERIENCE

TEACHER ASSISTANT

Sapienza University of Rome

February 2024 – Present

Rome, Italy

- Delivered 20% of lectures to 100+ students in a Programming Techniques course, effectively conveying key concepts such as Object-Oriented Programming and Algorithm Complexity.
- Collaborated with the lead professor to design and develop programming exercises and exam materials.

META

Workshop – Personal Aria and Digital Data Timeline

December 2023 – December 2023

Menlo Park, CA

- Tested [Aria glasses](#) at Meta HQ, actively exploring their integration with personal user data.
- Collaborated in a team of 5 during a hackathon, resulting in a chatbot for personalized food recommendations tailored for Aria wearers.
- Developed a ChatGPT-based chatbot with a Retrieval-Augmented Generation (RAG) system; designed to analyze menus recorded via Aria glasses and users' past preferences to provide custom dining suggestions.

PEER-TO-PEER EDUCATION

High School Program

- Tutored 5 high school students in Math and Physics, resulting in a 25% increase in their mean test scores.

PROJECTS

E-commerce – Microservices Architecture | [React](#), [HTML5](#), [CSS3](#), [Django](#), [PostgreSQL](#), [Docker](#), [Scrum](#), [Jira](#)

- Led a team of 5 to build a microservices-based e-commerce application, employing React for frontend and Django for backend. Designed REST APIs in Django for efficient communication between microservices.
- Conducted Scrum meetings and managed user stories and project goals on Jira.

TV Movie Analysis – Interactive Visualization Tool | [D3.js](#), [Pandas](#), [SciPy](#), [Sklearn](#)

- Led a team of 3 to design and develop an interactive visualization tool for analyzing TV movie scheduling.
- Integrated data from different sources, including web scraping, resulting in a dataset of 100k tuples.
- Designed customized distance functions for Multidimensional Scaling (MDS) to plot data points in 2D.

Coreference Resolution | [PyTorch](#), [Pandas](#)

- Achieved top class accuracy (88.2%) on Google AI Language's GAP dataset with a BERT-based deep learning model in PyTorch.
- Reduced training time by threefold compared to baseline while maintaining performance.

ABOUT ME

Programming (**Proficient**) Python • SQL • JavaScript • HTML/CSS | (**Familiar**) C++ • Java • PHP • XML
PyTorch • Pandas • Weights & Biases • Sklearn • PostgreSQL • React • Django • Docker • Git

Languages English (**Proficient**) • Italian (**Native**) • Romanian (**Intermediate**)

Interests Deep Learning • NLP • Generative AI • Information Retrieval • RL • Data Analysis