

Adam Rida

Data Scientist and AI Research Scientist

Paris, France | +33 (0) 6 51 09 99 93 | adamrida.ra@gmail.com

Personal website: adrida.github.io | Github : [adrida](https://github.com/adrida) | [Google Scholar](#)

PROFESSIONAL EXPERIENCE

Entrepreneur First

Paris, France / San Francisco, USA

Co-founder and CTO - SynthAI

05/2024 - 09/2024

- Developed an AI co-pilot for investment thesis generation in private equity, releasing three live prototypes to over 100 private equity funds.
- Engineered a proprietary PDF parser and innovative multi-document summarization techniques using knowledge graphs (GraphRAG and Multi-headed RAG).
- Led product design, development, and AI research, addressing RAG limitations in summarization.

MFG Labs

Paris, France

Data Scientist

11/2023 - 04/2024

- Optimized supply chain operations for a luxury brand using AI, tackling data scarcity challenges.
- Designed strategies to minimize stockouts while effectively meeting customer demand.

AXA / Sorbonne University – CNRS

Paris, France

AI Research Scientist - Ph.D. Candidate

10/2022-10/2023

- Conducted research on Responsible and Explainable AI within AXA's R&D team.
- Developed new approaches for differential explanations to interpret differences between models.
- Authored a research paper accepted at ECML/PKDD 2023 workshop.

Société Générale Corporate and Investment Banking - SGCIB

Paris, France

Data Scientist, Apprenticeship – Fixed-Term contract

09/2021-09/2022

- Created predictive analytics tools and dashboards for sales teams, boosting performance significantly.
- Processed large datasets (>20M rows monthly) using PySpark and Kedro.
- Implemented code guidelines and team management processes for a team of seven.

Rebellion Research AI Asset Management

New-York City, USA

Machine Learning Quantitative Researcher, Internship

02/2021-09/2021

- Constructed deep reinforcement learning investment strategies, achieving a 21% annualized return and 1.8 Sharpe Ratio.
- Engineered features from SEC 13-F filings to enhance model performance.
- Published essays on AI and cryptocurrency, reaching over 100,000 readers.

Qantev

Paris, France

Data Scientist, Internship

04/2021-08/2021

- Achieved 97% accuracy in medical insurance NLP models, up from 70%.
- Optimized data processing architecture, increasing speed by ~70%.
- Collaborated in an agile, test-driven environment with high code standards.

Software Engineer, Internship

06/2020-10/2020

- Implemented front-end views in collaboration with the UI/UX team using React JS and Python.

EDUCATION

Sorbonne University – CNRS - LIP6 – AXA

Paris, France

Ph.D. Candidate in Computer Science – Artificial Intelligence

2022-2023

- Specialized in Explainable AI (XAI) focusing on differential explanations between models.
- Part of the AXA-Sorbonne University Trustworthy and Responsible AI Lab (TRAIL).
- Transitioned to industry after one year.

CY Cergy Paris Université - CY Tech (ex EISTI - École d'Ingénieur -)

Cergy, France

Master's degree in Applied Mathematics and Data Science – (Diplôme d'Ingénieur)

2017-2022

- Ranked in the top 8% with a grade of 16/20 (Grade A).
- Relevant Coursework: Machine Learning, Deep Learning, Statistics, Econometrics, Time Series Forecasting, Optimization, Artificial Intelligence, Databases.
- Master's Project: Time series forecasting of SWIFT transactions and the impact of macroeconomic indicators at Société Générale.

Ecole 42

Paris, France

Intensive 3-year program (Ranked 24th over 900 applicants - Hackathon format)

2017-2020

- Studied algorithms and C programming through peer-to-peer, project-based learning.
- Ranked 24th out of 900 applicants in a competitive one-month programming session.

Lycée Charlemagne

Paris 4, France

High School degree - Among top Parisians high schools - French Baccalauréat with Honors, Mention Bien (14.5/20)

2016

SKILLS

Data Science and AI: Explainable AI (XAI), Machine Learning and Deep Learning, Deep Reinforcement Learning, LLM engineering (RAG pipelines, Langchain, etc), NLP (Topic Modelling, transformers, Bert), Data Processing

Frameworks and tools: TensorFlow, PyTorch, Keras, Kedro, PySpark, Gradio, React, Dash

Languages:

- French: Native
- English: Fluent (Toeic 965/990)
- Spanish: Conversational

Programming languages: Python (Numpy, pandas, scikit-learn), R, Java, C, Scala, SQL

- **Dynamic Interpretability for Model Comparison via Decision Rules**, Adam Rida, Marie-Jeanne Lesot, Xavier Renard, Christophe Marsala; ECML/PKDD 2023 DynXAI Explainable Artificial Intelligence: From Static to Dynamic Workshop
- **Deep Reinforcement Learning & Feature Extraction For Constructing Alpha Generating Equity Portfolios**, Alexander Fleiss*, Amrith Kumar*, Adam Rida*, Junsup Shin, Xinying Lai, Vivian Fang, Jialiang Chen, Ang Li:: SSRN (> 200 downloads *:equal contributors)
- **Temporal Augmented Retrieval (TAR)** - Dynamic RAG (Open Source Project - 21 stars on Github)
- **Published essays**
 - "What is Explainable AI?", Rebellion Research, 2021
 - "Why Does Nobody Want Crypto?", Rebellion Research, 2021
 - "1636 Tulip Mania, GameStop, Crypto, and Social Media", Rebellion Research, 2021
 - "Should We Aim For Humain-AI Coordination Instead Of Human-AI Confrontation?", Rebellion Research, 2022
- **Web3 Projects:**
 - Developed projects with over 3,000 users and achieved multi-million-dollar market caps (details available upon request to protect anonymity)

ADDITIONAL INFORMATION

References: Available upon request.

Note: All links, more details, and access to code are available on my personal website.