

# Safia LAMRI

Third-Year Student in Data Science Applied to the Study of Arts and Cultures

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## EDUCATION

**Sept. 2023 - Jun. 2026:** ENS-Paris Sciences et Lettres University Bachelor's in Data Science, Arts and Cultures — Pluridisciplinary Higher Education Program

- Data science major: Programming, Statistics, Algorithms, Mathematics, Data Analysis Mentoring
- Cultural sciences major: Data Science for Linguistics, NLP, Cognitive Science, Sociology of Culture, Data Visualization, Art History, Literature & Theatre (incl. Arabic Literature)

**Sept. 2023 - Jul. 2024:** Lycée Louis Le Grand, Paris | CPES Data Science, Arts and Cultures

- Core courses in mathematics, programming & algorithms, literature, arts, history, and languages

**Sept. 2020 - Jul. 2023:** Lycée International Alexandre Dumas - Mathematics, Physics, Chemistry, Algiers — International French Baccalaureate, Très Bien

## SKILLS

### • Programming

Python (NumPy, Pandas, Statsmodels, Matplotlib, Seaborn), Markdown, Renpy, HTML, CSS, Java

### • Data Collection

Questionnaire design, manual annotation, online data collection, implementation and use of LLMs, NLP mastery

### • Data Analysis

Data manipulation, Descriptive Statistics, Graphical Representation, Linear and Logistic Regression, GLM, Interaction and Random Effects

### • Scientific Approach

Literature review, problem formulation, predictions, hypothesis testing

### • Languages

French – Native  
English – Professional proficiency (C1 IELTS))  
Arabic – Native  
Tamazight – Native

### • Office Software

Word, Excel, PowerPoint

## PROJECTS

### Visual Memory and Color Perception – Data Analysis Project – April 2024

- Design of an interactive experimental questionnaire within the Data Science, Arts, and Cultures program (PSL). Behavioral data collection via a color pattern memorization game, statistical analysis of anonymous responses, and result visualization.

### Visual Novel on the Life of Marie-Antoinette – Interdisciplinary Group Project – June 2024

- **Problem:** Create an interactive narrative game based on historical events, combining documentary accuracy with fictional choices.
- **Method:** Development of a branching scenario, integration of multiple choices and alternative outcomes, coding of the narrative logic in Renpy
- **Personal Contribution:** Historical research, design of choices and scenarios, implementation of branching navigation system.

### L'Ombre du Zaman – Virtual Exhibition – Interdisciplinary Group Project – December 2024

- **Problem:** Design a diachronic virtual exhibition on the theme of time using museum collections from a single city.
- **Method:** Selection of diverse works (archaeology, photography, cinema, horology), design of a scenographic pathway with two thematic rooms, creation of an immersive video accompanied by a slideshow.
- **Personal Contribution:** Researching the works, writing exhibition texts, co-designing the scenography, participating in video editing.

### Predictive Analysis on Romantic Love Themes in Films – December 2024

- **Objective:** Develop a predictive model to determine whether a film's plot involves themes such as marriage and cheating based on its descriptive text.
- **Method:** Used neural networks and other predictive analysis techniques to analyze film descriptions and predict key themes.

## EXPERIENCE

### UROP Internship – Jean Nicod Institute, ENS (École Normale Supérieure) – October 2024 to June 2025

- **Problem:** Study literary texts using artificial intelligence to address an issue of automated literary analysis.
- **Method:** Application of NLP techniques (bag of concepts, embeddings), dataset creation, data visualization, training and optimization of an LLM on Google Colab.
- **Personal Contribution:** Implementation and optimization of LLM, experimentation with various methodological approaches, contribution to dataset creation and reflection on the automation of literary analysis. Assessed whether Arab-Islamic societies are inherently governed by strict moral and social norms.

### Freelancer – Tutor at Eddmon – Since 2024

- **Problem:** Assist students in their academic progress with a structured approach and personalized methods.
- **Method:** Regular support, exam preparation, content adaptation based on students' needs. Designed personalized lesson plans and exam preparation strategies.
- **Personal Contribution:** Help in setting up the new Eddmon website, particularly in the development of a tool for creating educational questionnaires using various AIs. Supported students in achieving improved results and confidence for national exams.

## REFERENCE

Valentin Thouzeau – Statistics and Programming Teacher, Paris Sciences et Lettres University  
Researcher in Psychology of Fiction, École Normale Supérieure, Department of Cognitive Studies  
[valentin.thouzeau@psi.eu](mailto:valentin.thouzeau@psi.eu)

## INTERESTS AND DISTINCTIONS

Sept. 2022 - Jul. 2023 – Algiers, Algeria:

### Club Patrimoine President

- Led the Heritage Club at LIAD, overseeing its activities and direction.
- Organised conferences and cultural events on history and heritage.
- Coordinated student initiatives to promote awareness of preservation.
- Engaged members through discussions and collaborative projects.

Sept. 2022 - Jul. 2023 – Algiers, Algeria:

### Model United Nations Club Member

- Participated in debates on international relations, geopolitics and social issues.
- Developed public speaking and negotiation skills in a multicultural setting.

Sept. 2021 - Jul. 2022 – Algiers, Algeria:

### Sorbonne Université, Youth Entrepreneurs Competition (StartLab project)

Winner

- Designed and presented a social business project distributing school supplies to rural students.
- Won the "Coup de Cœur du Jury" prize for innovation and social impact;

Sept. 2021 - Jul. 2023 – Algiers, Algeria:

### STEM Academic Competitions

- Participant Prepared for the Concours Général in Mathematics and Arabic.
- Participated in Chemistry Olympiads training sessions.
- Carried out a research project with Maths en Jeans and the University of Bab Ezzouar;