

LUCIA FABBRI

Passionate Data Science student with a background in Computer Science and Engineering and experience as a Freelance Web Developer. Enthusiastic about coding and data, I am always learning and taking on new challenges.

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EDUCATION

University of Pisa, Italy **2022-present**

MSc Data Science and Business Informatics

- Main Coursework: Data Mining, Text Analytics, Decision Support Systems, Optimization, Statistics, Business Process Modeling

University of Madrid, Spain **2023-2024**

Erasmus Exchange Semester

- Main Coursework: Open Data and Knowledge Graph, Adaptive Systems, Innovation and Entrepreneurship

University of Bologna, Cesena, Italy **2018-2021**

BSc Computer Science and Engineering

- Main Coursework: Programming (OOP, Web, Mobile, Networks), Databases, Algorithms and Data Structures, Operating Systems

Liceo Torricelli-Ballardini, Faenza, Italy **2013-2018**

Linguistic High School – EsaBac (Italian-French)

- Foreign Languages: English, French, German

PROJECTS

Data Mining and Emotion Classification **Master**

- Emotional speech and song classification on feature-based datasets and timeseries. Applied clustering (K-Means, DBSCAN, OPTICS, Hierarchical Clustering) and classification (Decision Trees, KNN, Naive Bayes, Logistic Regression, SVM, Neural Networks). Performed dimensionality reduction (PCA, MDS, IsoMap) and pattern mining with the Apriori algorithm. Used SHAP and LIME for model explainability.

Data Warehouse and Business Intelligence **Pisa, Master**

- Designing and implementing a Data Warehouse to integrate sales and geography data using SQL Server and SSIS for data flow management. The ETL process, automated via SSIS, included data extraction, cleaning, and transformation with Python. A multidimensional cube was created in SSAS for analysis by time, product, and geography, with MDX queries providing insights. Power BI dashboards visualized trends and enabled actionable insights.

Text Analytics and Toxicity Detection **Pisa, Master**

- Performed text analysis to uncover key toxicity themes, such as cyberbullying, racism and misogyny, using Latent Dirichlet Allocation (LDA). Developed and optimized classification models, integrating both traditional machine learning algorithms (SVC, Naive Bayes, KNN) and state-of-the-art neural network models (BERT, EmoRoBERTa) to improve emotion detection and text comprehension accuracy.

Game Developing and Object-Oriented Programming **Cesena, Bachelor**

- Developed a game application following the MVC architectural pattern, managing player interactions and enemy behavior through well-structured classes and interfaces. Applied design patterns to enhance modularity, wrote automated tests with JUnit, and utilized Git for version control.

EXPERIENCE

Freelancer Web Developer, Italy **2015-present**

- Designed and managed websites and ecommerce platforms for various industries and local businesses, primarily using WordPress and its associated tools and technologies.

Imola Informatica SpA, Remote, Italy **Apr-Nov 2021**

Curricular Internship

- Analysis of OSINT reconnaissance tools, developing automated pipelines to integrate multiple tools and extract the maximum amount of data efficiently for various user requests.

SKILLS

Technical Python (pandas, numpy, scikitlearn, tensorflow, keras, pytorch, seaborn, matplotlib, nltk), ETL (SQL, SQL Management Studio, Azure Data Studio, PowerBI), Visual Studio, Git, R, Java

Web Development WordPress, CSS, HTML, PHP, JavaScript, Woocommerce, SEO, Canva

Languages Italian (native), English (B2), French (B2), German (B2)

Interests Travel, hiking, cycling, volleyball, gym, cooking, animals