Software Engineer 👨‍💻 | **Data Analyst** 📈 | **Data visualization** 🎨

Education

B.S. Computer Engineer

Degree score: 86 | 110

Università degli studi di Perugia, PG

Aug 2014 – Dec 2018

M.S. Data Science

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Università degli studi di Perugia, PG

Aug 2019 – May 2022

Expertise area

Computer Engineer with a passion for web development, machine learning and data analysis. I like to transform complex information into clear, meaningful representations while maintaining application simple and intuitive. I prioritize clarity and usability, avoiding bloated code difficult to mantain.

Through my studies i built knowledge on system design to achieve the desired functionality, performance, and reliability. I apply design patterns and evaluate algorithmic complexity to deliver efficient solutions while continuously learning and refining my skills through research and technical documentation.

My approach is to develop robust code based on solid software design, emphasizing **clean architecture, maintainability, and performance,** qualities that really give value to the applications by following best practices to balance functionality with long-term sustainability.

Proficient in machine learning and data analysis from building a data foundation through collection/scraping and cleaning, to performing EDA (Exploratory Data Analysis) and building predictive models. Creating insightful, interactive data visualizations that reveal patterns,

communicate insights, and let the data speak through compelling visuals. Some experience in deep learning for image analysis, CNNs including segmentation and pattern recognition.

Projects

Crimes Dashboard

December 2024 - February 2025

- A **React** dashboard with the use of **Chackra UI**.
- **ExpressJS** backend serving the crimes data to showcase
- To navigate the crimes of the City of Belém - Brazil in a modern site

Powerlifting Database

January 2025

- SPA application written in **React**
- **Interactive data visualization** using chart.js
- **Java Springboot** backend
- **Unit and integration test for** backend and for frontend

Leaf Segmentation

May 2025

- Implementing image segmentation using U-Net implementation on a custom dataset
- **Tools:** Kaggle; Tensorflow; Labelbox;

Judo-club

May 2025

- A modern NextJS website for a judo club designed as a landing page for the club and to navigate about tecnhical resources about judo.
- Using **MDX** content management

💻 Technical Skills

Languages:

`JavaScript` · `TypeScript` · `Java` · `Python` ·

Frontend Development:

`React` · `Next.js` ·

Backend & APIs:

Express.js ·MongoDB ·PostgreSQL ·SQLite ·Swagger ·Postman

Data Science & Machine Learning:

Python ·TensorFlow.js ·Apache Spark

Data Visualization:

D3.js ·Chart.jsPlotly

DevOps & Tools:

Git ·GitHub ·Docker ·Vite ·QGIS

Languages

- **Italian:** Mothertongue
- **English:**

    - **Reading:** Strong comprehension of written texts
    - **Speaking:** Proficient in conversional comunication
    - **Listening:** Full understanding of spoken language

- **Portuguese:**

    - **Reading:** Moderate ability to understand written content
    - **Listening:** Can follow dialogues with ease