

Ewerthon Araújo Melzani

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Education

ITA-Instituto Tecnológico de Aeronáutica (Electronic Engineering 2020-2023) São Paulo, Brazil

Degree, Concentration. GPA: 4/4

Description: Intensive physical and psychological military training. Best engineering institute in Brazil.

ENSTA Paris (General engineering 2023-2026) Paris, France

Degree, Concentration. GPA: 4/4

Description: General engineer at the second best engineering school in France.

Projects: Creating a statistics library in Python in partnership with the responsible professor Maxime Ossonce

Institut Polytechnique de Paris (Applied Mathematics 2024-2025) Paris, France

Description: Master 1 research in applied and general mathematics.

Experience

CNPQ - National Council for Scientific and Technological Development São Paulo, Brazil

Researcher January 2022 – March 2023

- Using quantum logic gates (qubits and photons) to produce neural networks, linear and non-linear transformations
- Using genetic algorithms to optimize neural networks (Ex: Particle Swarm Optimization, Genetic Algorithm)
- Implementing these models and ideas in Python with the numpy and PennyLane libraries

Mupi Systems Remote, Brazil

Data scientist March 2023 – July 2023

- Applying TensorFlow and Keras tools (Python), in particular the architecture of a transformers to identify and extract data from documents
- Creating an API using Flask (Python), so that online data extraction could be used by the entire company

ENSTA Paris Paris, France

Moniteur de Bibliothèque April 2024 – July 2024

- Organization of the Library's database of books, articles and authors with Microsoft Access
- Automation of tasks related to the relevance of books and articles with Microsoft Excel

ENSTA Paris Paris, France

International student reception manager July 2024 – September 2024

- Creation of Excel spreadsheets and Latex documents as well as video classes with instructions on documents, housing and food
- Organizer of events and gatherings that encourage plurality and inclusion in the university environment

Volunteer jobs

CASD - Curso Alberto Santos Dumont São Paulo, Brazil

Teacher March 2020 – December 2022

- Teacher at an ONG with the aim of providing opportunities for young people in situations of socioeconomic vulnerability by providing quality education for free.

Secours populaire français Paris, France

Distributor of food and basic utensils September 2024 – Doing

- Distributing food and hygiene items as well as other goods to economically vulnerable people for free.

Language proficiency

- C2 (Fluent) : Portuguese (BR)
- C1 : English/French