Vitor dos Santos Silva

Résidence du Parc, Batîment 8 - Massy, 91300
📞 07 65 29 24 74 • ✉ vitor.silva@ieee.org / silva.vitor@usp.br
IEEE student member / Tech Fellow @ Fundação Estudar (0.5% acceptance rate)

Education

Diplôme d'ingénieur BAC+5 (Double degree)	**Lille, France**	
École Centrale de Lille	*2022 – 2024*	
Bachelor in Electrical Engineering	**São Paulo, Brazil**	
University of São Paulo - USP	*2020 – 2026*	
Technician in Industrial Automation	**Suzano, Brazil**	
Federal Institute of São Paulo - IFSP	*2017 – 2019*	

Professional experience

Carrefour Groupe (Global headquarters) — **Massy, France**
Data Analyst Intern — *July 2024 – December 2024*

- BigQuery SQL database management and development of ETL pipelines with data integration from multiple different sources.
- Worked with a diverse team from various countries where the company operates.
- Google Cloud Platform (BigQuery, Cloud Storage, Sheets and other Google APIs).
- Development of user and Python interfacing tools, along with data visualization using business intelligence tools (Google Data Studio/Looker Studio).

Helean (Incubator HEC Paris @ Station F) — **Paris, France**
Winter Intern / Summer Intern — *January 2023 – February 2023 / July 2023 – August 2023*

- Time series analysis and forecasting tools in a startup context.
- Team work in a diverse team with people from multiple nationalities.
- Traditional forecasting methods (such as ARIMA) and deep learning methods (such as TFT and NHITS).
- Cloud services on Amazon Web Services (S3 and EC2).

Brainly — **New York, USA (Remote)**
Freelancer - Physics tutor — *May 2022 – January 2023*

- Improving comprehension of physics on a K12 level and communication skills.
- Adapting teaching methods for different types of public.

Research projects

Brain damage evaluation on newborns with artificial intelligence — **Lille, France**
Supervisor: Dr. Slim Hammadi — *September 2022 – January 2024*

- Collaboration with the University Hospital of Lille.
- Coordinated a team of 12 people.
- Development of an end-to-end web application with user input pipeline, and user interface hosted using Apache.
- Electroencephalogram analysis and artificial intelligence model deployment with REST API.
- Development of an ETL workflow using state-of-the-art Python framework to deal with sensitive medical data.

Machine learning systems for digital twins of oil production units — **São Paulo, Brazil**
Supervisor: Dr. Anna Helena Reali Costa — *December 2020 – December 2022*

- Collaboration with the Brazilian state oil company Petrobras.
- Development of pipelines for data science applications, such as machine learning model training and evaluation, as well as model versioning with MLFlow.
- Signal processing and filtering with noisy physical information from sensors.
- Data cleaning, organizing and reconstruction, extraction of relevant features from signals.

Hybrid mobile robot control software with image processing — **Suzano, Brazil**
Supervisor: Dr. Vera Lúcia da Silva — *February 2018 – December 2019*

- Embedded systems applied to robotics using Raspberry Pi.
- Extensive use of OpenCV image processing library in both Python and C++.
- Mechanical robot structure development using SolidWorks/OnShape and 3D printing in PLA, PETG and ABS.

Skills

- **Programming:** Python, Jupyter Notebooks, C/C++, Java, Object-oriented programming, Ladder for PLC, Matlab/Simulink, Labview, VHDL, SQL.
- **Soft skills:** Teamwork, project management, advanced planning and strategic analysis (MOOC Géstion de Projet).
- **Miscellaneous:** Linux, Raspberry Pi, Matplotlib, Pandas, Docker, git, Kedro, Keras, TensorFlow, PyTorch, OpenCV, Computer Aided Design, 3D Printing, Excel spreadsheets, Google Cloud Platform, Amazon Web Services, Advanced Google Sheets, LaTeX.

Languages

- **English:** Advanced - C1 certification (FCE and TOEIC)
- **French:** Advanced - C1 certification (TCF and DELF)
- **Portuguese:** Native language
- **Spanish:** Basic - Currently studying

For more information, such as published papers, do not hesitate to visit my webpage: vitorsilva.fr