Gabriel Alves Kuabara

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Education

BS in Computer Science *Jan 2020 - Aug 2024*

University of São Paulo (USP) - *São Carlos* *CGPA: 9.0/10*

Work Experience

Data Engineer at Serasa Experian *Feb 2023 - Jun 2024 (Internship) Jun 2024 - present (Full-time)*

- I spearhead the development of **data pipelines** and **analytics software** used inside the company.
- These data pipelines **collect**, **transform**, and **store** data to support the monitoring of machine learning models' performance related to credit scores and fraud.
- Develop analytics software that **automates complex tasks**, and generates actionable insights for analysts and salespeople.
- Major responsible for the feature that completely automates detailed chart reports for backtests.
- **Optimized hours** of Python-based data processing pipelines and Microsoft SQL Server queries across multiple systems.
- Led migration projects to AWS with API development.
- Built many **web scraping** scripts to get data across multiple websites.
- Technologies: Python, SQL, PHP, Airflow, Tableau, API frameworks, JavaScript, AWS.

Research, Activities and Projetcs

Scientific Researcher (Part-time) *Mar 2022 - Feb 2023*

- Led research on predicting infant behavior using **machine learning** models applied to encephalography data.
- Conducted a study on recognizing traumatic stimulus patterns in PTSD patients through encephalography data analysis.
- Developed high-accuracy models to enhance understanding of behavior and stimulus patterns by analyzing key measurements and parameters.
- Technologies: Python, various machine learning and statistical libraries, and MATLAB for data analysis.

Teacher Assistant at ICMC – USP (Part-time) *Aug 2021 - Jan 2022*

- Conducted in-depth **code reviews** and provided constructive feedback for over 100 students.
- Assisted the professor in delivering lectures and lab sessions on topics including recursion, file management, algorithm analysis, asymptotic notation, sorting algorithms, and hashing.
- Taught students about **code quality** and **debugging skills**, facilitated weekly Q&A sessions, and increased student performance.

Computational Vision Project (Extracurricular) *Mar 2023 - Jul 2023*

- Designed and built an automatic door lock system utilizing **facial recognition** technology.
- Integrated a camera with a microprocessor to capture and transmit images to a server for facial recognition.
- Implemented an Arduino-based control system to manage the door lock mechanism based on server responses.
- Employed the Haar Cascade Classifier algorithm for initial face detection.
- Developed a **neural network** for face recognition, leveraging transfer learning with VGGFace16, and employed k-fold cross-validation and early stopping to enhance model performance.

Coordinator at Semcomp (Academic Computing Week) *Apr 2021 - Dec 2022*

- Led the **organization** and execution of the **hackathon**, including event planning, logistics, and participant coordination.
- Managed food and beverage services, ensuring seamless coffee breaks and meal provisions for attendees.
- Oversaw a team of volunteers, delegating tasks and ensuring smooth operations throughout the event.
- Coordinated with sponsors, vendors, and partners to meet event requirements and enhance the participant experience.

Skills

Programming Languages: C, C++, Python, SQL, PHP, Web (HTML, CSS, JavaScript, React)
Technologies: Git, Flask, FastAPI, Django, AirFlow, AWS, Docker, Spark, Hadoop
Languages: Portuguese (Native), English (Fluent)