

Mario Sato
Data Scientist
Financial AI, CNN, RL
Master in Computer Science
University of Tsukuba, Ibaraki, Japan

→ +81-080-6570-8999

tsukassa21@hotmail.com

https://mariotsato.github.io

GitHub Profile

LinkedIn Profile

EDUCATION

University of Tsukuba

Nov/2021 - Mar/2024

Master's in Computer Science

•INSPER - Institute of Research and Education

Jul/2015 - Jun/2019

Undergraduate in Business Administration

TECHNICAL SKILLS AND INTERESTS

Languages: Python, SQL, C++

Developer Tools: Git, Pytorch, Tensorflow, OpenCV, Streamlit, Docker, Snowflake, DataRobot

Systems: Mac, Linux, Windows

Soft Skills: Financial Knowledge, Consultant skills, Intercultural Experience

Areas of Interest: Financial AI, CNN, Reinforcement Learning Languages: Japanese (Fluent), English (Fluent), Portuguese (Native)

EXPERIENCE

•AlpacaTech Co. Jun/2023 - Now

 $Data\ Science\ Intern \rightarrow Data\ Scientist$

Tokyo, Japan

- Optimized a Reinforcement Learning model by customizing policy structures and reward configurations to enhance trading performance.
- Developed and automated a visual reporting system for daily financial transactions, improving client insights and decision-making.
- Conducted research on price forecasting models, leveraging state-of-the-art AI techniques in financial time series analysis.

University of Tsukuba

Apr/2022 - Mar/2024

 $Research\ Asssistant/Teaching\ Assistant$

Tsukuba, Ibaraki

- Designed a methodology for estimating tomato plant Leaf Area Index using CNN and Image Processing techniques.
- Served as a Teaching Assistant for courses including Information Science and Introduction to Programming.

•Global Link Consultoria

Jun/2020 - Oct/2021

Consultant

Sao Paulo, Brazil

- Led the turnaround of a well-known restaurant in São Paulo, successfully restoring operations and financial stability amid the COVID-19 crisis.
- Developed and implemented a digital marketing and sales strategy, driving revenue growth and enhancing customer engagement.

Modelos de Negocio Consultoria

Oct/2018 - Mar/2020

 $Intern \rightarrow Consultant$

Sao Paulo, Brazil

- Provided strategic guidance on implementing a new management culture at one of Brazil's largest waterproofing companies.
- Developed and deployed automated document generation systems across multiple departments.

RESEARCH/PROJECTS

-Awards

Awards obtained in academy

- * 2nd place in Semiconductor Manufacturing Fab Data AI utilization Idea Contest. Project: The early detection and prediction of road anomalies by IoT deceives attached to cars (https://issm2022-ai-contest.jimdofree.com/award-result/) (12/2022).
- * 1st place in Business Plan challenge in INSPER Corporate Strategy Competition (August/2017).

-MEXT Scholar: Master's Thesis

Apr/2022 - Mar/2024

Leaf Area Index Estimation of Tomato Plants by Image Processing and Deep Learning

* Tools & technologies used: Semantic Segmentation, Deep Learning, Regression, Image Processing

EXTRA-CURRICULAR ACHIEVEMENTS

-JICA Scholar: Undergraduate level education program for Nikkei Next Generation Yokohama, Kanagawa