GUSTAVO DE MARI PEREIRA

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Languages: Portuguese - Native, English - Advanced, Spanish - Basic

EDUCATION

M.S. Computer Science, University of Sao Paulo — Jan, 2021 - Present
Institute of Mathematics and Statistics (IME-USP)
Dissertation name: "Inverse Reinforcement Learning applied to epidemiological processes: a COVID-19 study"
Research topics: Machine Learning, Reinforcement Learning, Inverse Reinforcement Learning, Epidemiological Models
Advisor: Leliane Nunes de Barros

B.S. Computer Engineering, Faculdade de Informática e Administração Paulista (FIAP) — Jan, 2008 - Dec, 2012
Research topics: Machine Learning, Neural Networks, Open Data, Higher Education, Evasion, Churn reduction
Dissertation name: "Neural networks applied to higher education evasion"
Advisor: Reinaldo Burian

SKILLS

Languages	Python, R, Julia, Javascript, Java, and C/C++
Data Science	pandas, numpy, SQL, scikit-learn, xgboost, matplotlib, seaborn, Keras, Tensorflow, PyTorch
Databases	Oracle, MySQL, PostgreSQL, and MongoDB
Tools	Git, Docker, MS Office
Technical	Machine Learning, Deep Learning, Reinforcement Learning, Inverse Reinforcement Learning

WORK EXPERIENCE

Founder & Data Scientist — Jan, 2016 - Dec, 2020
Providentia — *Sao Paulo, SP*

- Engineered a demand forecasting platform utilizing Machine Learning, tailored for logistics and industrial sectors
- Developed advanced time series forecasting models encompassing exponential smoothing, ARIMA, quantile regression, gradient boosting, ensembles, recurrent neural networks (LSTM and GRU)
- Constructed an accessible platform facilitating end users in generating accurate demand forecasts through technologies like Node.js, AngularJS, MongoDB, PostgreSQL, and RabbitMQ

Founder & Software Engineer — Oct, 2013 - Dec, 2015
Rapi.do — *Sao Paulo, SP*

- Established a platform uniting motorcycle couriers, businesses, and individuals via Node.js, MongoDB, and AngularJS
- Developed an intuitive mobile app for couriers and users, leveraging jQuery Mobile

Data Engineer — Mar, 2011 - Jul, 2014
MarketData — *Sao Paulo, SP*

- Consulted on over 30 statistical modeling and data engineering projects, impacting 10+ million Santander Bank clients in multiple products
- Managed, reviewed, and enhanced ETL pipelines using SQL and PL/SQL
- Crafted interactive dashboards and reports using Excel and Pentaho, enabling data analysis and actionable insights
- Pioneered Wiki CRM, enabling analysts to document project details, ETL metadata, and dataset information

Software Engineering Intern — Jul, 2010 - Mar, 2011
Brazilian Federal Revenue Office — *Sao Paulo, SP*

- Produced reports for the Brazilian Federal Revenue Office, utilizing Business Intelligence tools such as Pentaho and Jaspersoft iReport
- Engineered a Java-based communication scheduling tool to streamline inter-departmental interactions
- Constructed administration panels for internal servers, employing HTML, CSS, and Python