Gustavo Furtado da Silva

Data Scientist

Data Scientist with experience in machine learning, pipeline automation, and process optimization for manufacturing and marketing. Expert in Python, SQL, and generative AI, with a track record of significant improvements in efficiency and data-driven decision-making.

Contact

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- https://github.com/GusFurtado

Professional Experience

Senior Big Data and Data Science Analyst

Ypê, Amparo | June 2021 - Present
- Developed machine learning models using Scikit-Learn and TensorFlow for revenue optimization, customer segmentation, product classification, and indicator forecasting, enabling faster and more accurate business decisions.
- Designed and managed a PostgreSQL database on Azure Cloud, centralizing strategic information and ensuring improved data accessibility and reliability.
- Implemented scalable pipelines with Spark and Databricks, reducing report generation time from one week to just a few hours.
- Automated data workflows and reporting processes using Airflow and dbt, optimizing operational efficiency and enabling real-time analytics.

Manufacturing Data Analyst

Ypê, Amparo | October 2018 - June 2021
- Developed web apps in Flask with Python and SQL Server for logistics and production data visualization and analysis, including monitoring fleet cycles and routes via GPS coordinates, optimizing times and routes.
- Supported goal management and KPIs by automating routines and training the team in visual management and daily practices.
- Participated in Industry 4.0 conferences and worked with suppliers to implement technologies such as intelligent dashboards, using simulations to validate new projects.

Industrial Simulation Analyst

Ypê, Amparo | December 2017 - October 2018
- Created process simulation models for new factories, production lines, and inventory optimization, providing data-driven insights for strategic capacity expansion decisions.
- Developed nonlinear programming models for optimizing production plans, maximizing resource usage, and reducing operational costs.
- Managed and analyzed industrial KPIs to generate strategic insights for senior management.

Process Engineering Intern

Wetzel S/A, Joinville | March 2011 - March 2013
- Conducted time studies and improved manufacturing processes.
- Developed tools to increase productivity.
- Conducted economic feasibility analyses for new processes.

Education

Master's in Production Engineering and Operations Research

Federal University of Santa Catarina, Florianópolis | March 2015 - February 2017
- Advisor: Dr. Nelson Casarotto Filho
- Thesis: Procedure for Analyzing Shared Production Systems Using Simulation-Based Optimization

Bachelor's in Production Engineering and Systems

State University of Santa Catarina, Joinville | January 2009 - December 2013
- Advisor: Dr. Evandro Bittencourt
- Final Project: Economic Feasibility Analysis for Acquiring Monitoring Software for Productive Maintenance Activities of Aluminum Injection Molding Machines

Projetos

Dados Abertos Brasil

https://www.gustavofurtado.com/dab.html
- An open-source Python package with over 2,000 monthly downloads that simplifies access to open data and government APIs from Brazil, such as IBGE and IPEA.

Reconhecimentos

- SIMEP 2017 Award for Best Operations Research Paper
- Advanced English: TOEFL iBT Certified

Data Stack

- Cloud and Big Data: Azure, Databricks, Spark, SQL, Pandas
- Machine Learning: Tensorflow, Scikit-learn, XGBoost, statsmodels
- Web Apps and Dashboards: Flask, Plotly, HTML, CSS
- Versioning and Orchestration: Git, GitHub, Airflow, dbt