Gabriel Bromonschenkel

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Experience

Stefanini   Brasilia, DF
Data Scientist   *Apr 2023 - Present*

- ○ **Activities**: Acting as data scientist, contract with an international bank. Conducted development of a machine learning model to optimize the hiring process using internal talent discovery. Investigated fraudulent activities on international transactions and payments with NLP and OCR, saving money from fines. Led the creation of a recommendation system for investments channel.

Tok&Stok   Sao Paulo, SP
Data Scientist   *Jun 2022 - Mar 2023*

- ○ **Activities**: Conducted data modeling tasks to feed the main tabular structure from Tok&Stok and another destinations. Pioneered market basket analysis to deliver insights about products organization and affinity, and continued sales forecasting project. Led Slack bot features to generate alerts about Analysis Service database overloads and to publish Power BI reports by typing commands in Slack. Helped to maintain the data warehouse, the big data architecture and data pipelines.

Tok&Stok   Sao Paulo, SP
Data Science Intern   *Oct 2021 - May 2022*

- ○ **Activities**: Conducted data modeling tasks to feed some reports and an app to ranking sellers performance. Built reports and analyzed data to optimize decision making about customer budgets, sales performance, store performance, and product discounts. Pioneered regression strategies to solve sales forecasting and to analyze goals metrics.

University of Sao Paulo   Sao Paulo, SP
Undergraduate AI Researcher   *Jul 2020 - Dec 2021*

- ○ **Mental Health Research**: Researched methods for applying machine learning and ontologies together for psychiatric analysis.

Federal University of Espirito Santo   Sao Mateus, ES
Undergraduate AI Researcher   *Aug 2019 - Aug 2021*

- ○ **Smart Grids Research**: Researched methods for loads identification in Smart Grids.
- ○ **Face Recognition Research**: Researched methods for face recognition with CNNs and ELMs concepts.

Education

Federal Institute of Espirito Santo   Serra, ES
M. Sc., Applied Computing   *2023 – 2025*

Federal University of Espirito Santo   Sao Mateus, ES
B. Sc., Computer Engineering   *2017 – 2022*

Bachelor Thesis: Recommendation Systems - An Approach with Graph Neural Networks
President Director, Computer Engineering Academic Center, 2021
Event Organizer, CompTalk, 2021
Operational Director, Orienta Covid ES HUCAM UFES, 2020

Research Papers

A Comparative Evaluation of Transformer-Based Vision Encoder-Decoder Models for Brazilian Portuguese Image Captioning

Gabriel Bromonschenkel, Hilário Oliveira, Thiago M. Paixão

SIBGRAPI 2024

Keywords

Cloud Computing: AWS, Azure, GCP, and DO;

Programming Languages: Python, SQL, Java, C++, and C;

Big Data: Hadoop, Hive, and Spark (PySpark);

Data Warehouse: Redshift, BigQuery, Snowflake, dbt;

Databases: Oracle, PostgreSQL, MySQL, and MongoDB;

Orchestration/Integration: Prefect, Airflow, and Pentaho;

Data/Model Visualization: Power BI, Tableau, Matplotlib, Seaborn, Plotly, Bokeh, Folium, Yellowbrick, and SHAP;

Machine Learning: Scikit-Learn, XGBoost, Keras, Tensorflow, PyTorch, Transformers, PyG, and Spark MLlib;

Data Analysis/Manipulation: Pandas, GeoPandas, NumPy, and Scipy;

AutoML: PyCaret, and TPOT;

Infrastructure as Code: Terraform;

CI/CD and Versioning: GitHub, GitLab, and Bitbucket;

Artificial Intelligence: Natural Language Processing (NLP), Multimodal Machine Learning, Patterns Recognition, Statistical Learning, Optical Character Recognition (OCR), Machine Learning, Deep Learning, Generative Artificial Intelligence, Computer Vision.

Neural Networks: Convolutional Neural Networks (CNN), Vision Transformers (ViT), Swin Transformers (Swin), Long-Term Short Memory Networks (LSTM), Large Language Models (LLM), Small Language Models (SML), Vision-Language Models (VLM), Multimodal Large Language Models (MLLM), Model Pre-Training, Model Fine-Tuning, Model Post-Training, Model Monitoring.