São Paulo, SP - Brazil

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Employment

Data Scientist, Intern	**Royal DSM N. V.**	**03/2020 – 05/2021**

- Reduced last mile distribution costs by 15% by developing a custom IRP(Inventory Routing Problem) solver to optimize planning under both inventory and fleet unavailability.
- Applied greedy algorithms to optimize distribution centers' inbound performance.

Junior Data Scientist	**Lett**	**05/2021 – 11/2021**

- Scaled Lett's EQI (E-commerce Quality Index) study to become an industry benchmark by applying state-of-the-art Natural Language Processing to automatically extract product information, such as brand and categories.
- Improved Operations product matching capabilities by 4x through a BERT-based semantic search engine.

Data Scientist & ML Engineer	**Lett**	**10/2021 – Now**

- Built and implemented cloud infrastructure, tooling, and frameworks to achieve faster model development and deployment while ensuring MLOps principles in a Big Data scenario.
- Reduced operations product matching demand by 96%, increased efficiency by 5x through AI-based product filtering and matching with state-of-the-art Deep Learning approaches.
- Reduced operations product image evaluation demand by 50% by detecting negligible image changes with Computer Vision algorithms.
- Increased human-fault Data Quality assertiveness from 85% to 99%, establishing DQ as a notable Lett differential by applying anomaly detection ML techniques.
- Created a scalable and cost-effective product image quality evaluation system, bringing to life the most requested feature by our customers at the time.
- Performed survival analysis on crawled product attributes (such as price, title, and availability) to better plan future data crawls, probabilistically choosing products that are likely to change, reducing data capture costs by 30%.
- Actively helped product teams and business decision-makers understand opportunities that data science and machine learning could unlock.

Additional Experience and Awards

- *4th Place, Porto Seguro Data Challenge 2021:* Awarded 4th place in the undergraduates' category.
- *Top 11%, Kaggle CommonLit Readability Prize:* Awarded 389th place out of 3633 teams for applying advanced natural language processing techniques to rate the complexity of literary passages.
- *Top 425 performer, Udacity AWS ML Scholarship:* Stood out between thousands of students globally to earn an AWS Machine Learning Engineer Nanodegree.
- *Technical Content Writer, Medium:* I write about Cloud, Machine Learning, Deep Learning, and MLOps topics.

Main Languages, Frameworks, and Technologies

- Python, SQL, R, C++, Apache Spark, Pandas, Scikit-learn, PyTorch, TensorFlow, Hugging Face, Flask.
- AirFlow, DBT, MLFlow, Metaflow, FEAST, Prometheus, Grafana, Great Expectations, Terraform, Jenkins, GitHub, GH Actions, Docker, Power BI.
- Sagemaker, BigQuery (Data Warehouse), S3 (Data Lake), Dremio (Lakehouse), RDS (PostgreSQL), ElasticSearch, MongoDB, DynamoDB, ECR, ECS, EBS, EKS, EMR, Batch, Fargate, EC2, Lambda, SQS, SNS, Kinesis, Kafka, Step Functions, Glue, Athena.
- Machine learning architectures for batch, micro-batch, stream, and real-time scenarios.

São Paulo, SP - Brazil	**Mackenzie Presbyterian University**	**06/2018 – 06/2022**

- BSc Computer Science. GPA: 3,7
- Participated in Artificial Intelligence academic leagues. Capstone project: "Emotion Recognition in Argument Mining with Deep Learning".