São Paulo, SP - Brazil

GABRIEL TARDOCHI SALLES

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EMPLOYMENT

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

Supply Chain

- 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**

Scale & Operations

- 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 products 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**

DataOps

- 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 images' quality evaluation system, bringing to life the most requested feature by our customers, at the time.
- Actively helped product teams and business decision makers understand opportunities that data science and machine learning could unlock.

EDUCATION

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

- BSc Computer Science. GPA: 3,7
- Participated in Artificial Intelligence academic leagues.
- Acted as an Algorithms and programming monitor.
- Capstone project: Emotion Recognition in Argument Mining with Deep Learning.

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.

Languages and Technologies

- Python, SQL, R, C++, C, Java, Apache Spark, Pandas, Scikit-learn, PyTorch, TensorFlow, Hugging Face, Flask.
- AirFlow, MLFlow, Metaflow, Prometheus, Grafana, Great Expectations, Terraform, Power BI.
- AWS: S3 (Data Lake), RDS (PostgreSQL), OpenSearch (ElasticSearch), DocumentDB (MongoDB), DynamoDB, ECR, ECS, EBS, EMR, Batch, Fargate, EC2, Lambda, SQS, SNS, Kinesis, Kafka, Step Functions, Glue, Athena.
- Dremio (Lakehouse), BigQuery (DW), Jenkins, GitHub Actions, Docker, Batch/Micro-batch/Stream/Realtime.