

Vinicius dos Santos Mello

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SUMMARY

Experienced Data Engineer with over 6 years of expertise in Data Engineering and Machine Learning. Skilled in end-to-end data product development, data platform technical leadership, and driving business outcomes. Strong problem-solving abilities and a passion for leveraging data to inform decision-making.

EXPERIENCE

Staff Data Engineer

Hurb

June 2023 - Present, Rio de Janeiro, Brazil

- Designed and implemented strategies on GCP to control Cloud Costs, resulting in greater visibility of costs and reduce of 40%.
- Developed a new architecture for the Data Warehouse following an Entity-centric data modeling approach.
- Led the project to implement a Data Catalog, improving self-service, enabling over 600 users to onboard over 2k data assets.

Senior Data Engineer

Hurb

January 2022 - June 2023, Rio de Janeiro, Brazil

- Increased data quality by 85% for Operational and Finance data by mapping validation rules and working with Product Engineering to fix issues, increasing Stakeholders' trust in data.
- Led initiatives that optimized data architecture, reducing cloud costs by 50%.
- Collaborated with teams to develop a Trips Itinerary Recommendation system, utilizing Vertex AI and Airflow for training and serving pipelines, aiming to enhance cross-selling opportunities.

Data Engineer

Hurb

July 2020 - December 2021, Rio de Janeiro, Brazil

- Developed data integrations with Apache Beam (Google Dataflow) for processing streaming data with a petabyte scale.
- Analyzed and optimized data workflows, resulting in an 80% reduction in data storage costs and a 40% increase in efficiency.
- Improved the time to develop Data Engineering workflows by 85% by automating deployments using a CI/CD pipeline, resulting in a 10x increase in developer productivity.

Data Engineer

Intuitive Care

March 2018 - July 2020, Rio de Janeiro, Brazil

- Developed and managed scrapers for extracting 500k+ insurance documents from different healthcare plans using Java and Selenium.
- Designed and implemented data models to restructure the company's database, allowing it to scale its offerings.
- Led architectural structurings by implementing solutions in the AWS, enhancing the platform's scalability and performance, reducing the time to process data by 90%.

PROJECTS

Passive Sonar Novelty Detection

Federal University of Rio de Janeiro • June 2017 - Present

- Implemented a Passive Sonar Novelty Detection system based on Autoencoders, achieving an 80% Novelty Detection efficiency in the test set.
- Using LSTM-based architecture, implemented a machine learning model to classify targets from frequency data that reached 95% accuracy on the test set.
- Designed a tool called Seashell to increase research development productivity and model comparison.

EDUCATION

Master of Science in Computational Intelligence

Federal University of Rio de Janeiro • Rio de Janeiro, Brazil • 2023 • 3.0

Electronics and Computer Engineering

Federal University of Rio de Janeiro • Rio de Janeiro, Brazil • 2020 • 3.0

CERTIFICATIONS

Google Cloud Advanced Solution Lab 5-week immersive Machine Learning Training Program

Google Advanced Solutions Lab • 2022

Deep Learning Specialization

Coursera • 2020

SKILLS

Leadership, Data Strategy, Analytics | Programming: Python, Java, SQL | Cloud: GCP, AWS | Tools & Frameworks: Apache Airflow, Apache Beam, Dataform, Kubernetes, Terraform, Prometheus, Grafana, GitHub Actions, Tensorflow, Pandas, Scikit-learn