MATHEUS TOSETTO

Data & AI Engineer

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SUMMARY

Data professional with over 10 years of experience across the healthcare, banking, big tech, and insurance industries. Skilled in designing and optimizing data pipelines, automating ETL processes, and maintaining scalable cloud architectures. Adept at transforming complex datasets into actionable insights that improve efficiency and business outcomes. Highly collaborative, adaptable, and passionate about solving real-world problems through data-driven solutions.

EXPERIENCE

Data Engineer   Aug 2023 - Present
AXA, Dublin - Ireland

- Partnered with a Data Scientist to build a **GenAI-powered application** for Claims Handlers, improving document summarization and chatbot-based query capabilities. (Project ongoing).
- Partnered with a Data Scientist to build an **MLOps pipeline automating model training and inference**, enabling early claim settlements and delivering **significant cost savings**.
- Designed and deployed **automated data pipelines** to support actuarial analytics and reporting.

> **Tech Stack:** Python, Azure, MLOps, SQL Server, DevOps, Bicep

Data Analyst   Sep 2022 - Jul 2023
Huawei, Dublin - Ireland

- **Increased downloads for three gaming applications by 12%** after analyzing and redirecting advertisements to audiences with a higher propensity for the subject matter.
- Developed a **Python automation script to monitor 30+ daily processes**, sending metrics used in an internal performance report created in FineBI (similar to Tableau).
- Collaborated with SRE teams in Germany on the **migration of 50+ processes** to servers in Ireland, resulting in improved process performance.

> **Tech Stack:** Linux, Python, Hadoop Ecosystem (Hive, Beeline), FineBI, GitLab.

Data Engineer   Feb 2021 - Apr 2022
Itaú Unibanco S.A, São Paulo - Brazil

- Developed a **Python-based partner rewards system** integrating data from 5 sources, **boosting brand marketing performance by 5%**.
- Collaborated with 4 Data Engineers to **modernize data infrastructure by migrating to AWS**, building services with S3, Redshift, and Glue, and executing initial data uploads.
- **Modernized 5 legacy pipelines** built in IBM DataStage to Python and Hadoop, in preparation for migrating all on-premises data from the department to the AWS data lake.

Data Analyst   Aug 2018 - Jan 2021
Itaú Unibanco S.A, São Paulo - Brazil

- Migrated the card inventory process from Hadoop to SQL Server, **reducing execution time from 2 hours to 15 minutes**.
- Identified and implemented a process optimization in card production using Python, reducing ink usage and **saving R$2M (~$400K) per month**.
- **Improved customer contact success by 15%** through Python-based analysis of email quality and collaboration with the call center.

> **Tech Stack (Itaú):** Linux, SAS, IBM Maximo, SQL Server Management Studio (SSMS), SQL Server Integration Services (SSIS), Python, Tableau, IBM Datastage, GitLab, JIRA, AWS Tools (S3, RDS, Lambda, Glue), Hadoop Ecosystem (Hive, Impala).

EDUCATION

MBA in Data Science and Analytics   **In progress - Expected Feb 2025**
Universidade de São Paulo (USP/ESALQ), São Paulo - Brazil

Bachelor's in Information Systems   **Jan 2014 - Nov 2018**
Universidade Presbiteriana Mackenzie, São Paulo - Brazil

CERTIFICATES

- **Apache Airflow Fundamentals:** Feb 2025
- **DataExpert Data Engineer Bootcamp:** Jan 2025
- **Azure Data Engineer Associate (DP-203):** Sep 2024
- **Azure Data Fundamentals (DP-900):** Jun 2024
- **Azure Fundamentals (AZ-900):** Dec 2023
- **Databricks Lakehouse Fundamentals:** Dec 2023

LANGUAGES

- **Portuguese:** Native
- **English:** Professional working proficiency