

Gustavo Lösch do Amaral

Data Scientist

22 years old
Porto Alegre - RS, Brazil
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Education

2024 – 2027 **Bachelor's Degree in Data Science and Artificial Intelligence**, *Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS)*, Porto Alegre - RS

Professional Experience

2026 – Present **Data Scientist, Full Time**, Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS), Porto Alegre - RS
Research and Development project focused on the development and implementation of an agentic memory framework.

2025 **Data Scientist, Internship**, Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS), Porto Alegre - RS
Research and Development project focused on implementing Large Language Models (LLMs) using RAG systems, RAG component optimization systems, and integrating predictive models into ERP software using machine learning.

2024 – Present **Undergraduate Research, Volunteer and Scholarship**, Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS), Porto Alegre - RS
Research involving Alzheimer's detection using acoustic variables and speaker segmentation in Alzheimer's test audios. Participation in national academic conferences and national and international challenges.

2022 – 2025 **Consultant, Freelance**, Ponto Pesquisa e Consultoria, Porto Alegre - RS
Worked on market research projects focused on data processing, statistical analysis, and creating machine learning models. Carried out projects with the companies SBT-SC, CBP, and Solutis using techniques for time series prediction, topic discovery in free text, and sentiment analysis in free text.

Awards

2024/2 **Academic Merit**, *PUCRS*
Academic Merit for obtaining a grade point average of 9.62 in 6 subjects taken during the semester.

2025/2 **Outstanding Work**, *26th PUCRS Undergraduate Research Seminar*

2025/2 **Best Work in Exact Sciences and Engineering**, *26th PUCRS Undergraduate Research Seminar*
Winner of the outstanding work and best work awards at the PUCRS Undergraduate Research Seminar. Work on speaker segmentation in Alzheimer's test audios, referenced in the Publications section.

2025/2 **Code Challenge Winner**, *1st Regional School of Machine Learning and Artificial Intelligence (ERAMIA)*
Winning team of the ERAMIA Code Challenge in a task to predict sales success based on the conversation history between salespeople and customers.

Key Skills

Languages Python, Java, SQL

Data Science Machine Learning (supervised, unsupervised, and deep), Natural Language Processing (NLP), Data Preprocessing, Exploratory Data Analysis, Data Visualization, RAG

Frameworks and Packages Pandas, Polars, Numpy, Scikit-Learn, Flask, XGBoost, LightGBM, Pytorch, Streamlit, Dash, TKInter, Matplotlib, Seaborn, Plotly, Threading

Others Linux, Git, Docker, Apptainer, Slurm, MongoDB, PostgreSQL, PGVector, FAISS

Interpersonal Good communication, Leadership, Teamwork, Transparency

Publications and Presentations

- 2025 Gustavo Lösch do Amaral; Luan Dopke; Dalvan Jair Griebler; Luiz Gustavo Leão Fernandes. **Automated Audio Analysis for Identifying Interviewees in Alzheimer's Tests**. In: 26th PUCRS Undergraduate Research Seminar, 2025, Porto Alegre/RS. <https://editora.pucrs.br/edipucrs/acessolivre/anais/sic/assets/edicoes/2025/arquivos/188.pdf> (Presentation and Publication of Extended Abstract)
- 2025 Caio Madeira; Gustavo Amaral; Joao Marth; Luan Dopke; Mauricio Magnaguagno; Vitor Pires; Dalvan Griebler. **Grouping Peer-Review Comments Into Improvement Classes Using Unsupervised Learning**. In: Research Practice Discipline, 2025 , Porto Alegre/RS. (Class Presentation)
- 2025 AMARAL, Gustavo; DOPKE, Luan; AIRES, João Paulo; LIRA, Juliana Onofre de; HUBNER, Lilian Cristine; GRIEBLER, Dalvan. **Automatic Audio Segmentation in Patient Interviews for Alzheimer's Testing**. In: 1st REGIONAL SCHOOL OF MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE OF THE SOUTH REGION (ERAMIA-RS), 2025, Porto Alegre/RS. Annals [...]. Porto Alegre: Brazilian Computer Society, 2025 . p. 272-275. DOI: <https://doi.org/10.5753/eramars.2025.16639>. (Presentation and Publication of the Article at the event)

Languages

Portuguese Fluent in Portuguese
English Advanced in English
Spanish Intermediate in Spanish