

Sabrina Sotelo Penedo

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sotelo-s.github.io/Portfolio

Languages

Spanish - Native

Galician - Native

English - C1 Level

German - A1 Level

Professional Objective

PhD student in Information Technology, graduated in Computer Engineering and with a Master's in Big Data at the University of Santiago de Compostela, I am passionate about natural language processing applied to social media, an area where my interests in massive data, artificial intelligence, and the social impact of technology converge.

Technical Skills

Data Science & Analysis.

- **Python**: Web Scraping (Beautiful Soup, Scrapy), Pandas, NumPy, graphic visualization (Matplotlib).
- **Machine Learning**: Scikit-learn, Hugging Face Transformers, model fine-tuning (BERT).
- **R**: Statistical analysis and graphic visualization (ggplot2).
- **Analysis tools**: Jupyter Notebook, Tableau, Power BI.
- **Natural Language Processing** (NLP): text classification, sentiment and emotion analysis, multimodal models.

Full Stack Development.

- **Frontend**: React, JavaScript (ES6+), HTML5, CSS3, Bootstrap 5
- **Backend**: Node.js, Express.js
- **Databases**: MongoDB, Mongoose, PostgreSQL
- **APIs**: RESTful APIs.

Programming languages: C, C++, Java.
Development tools: Git, npm.

Work Experience

Sept. 2026 - Now

Collaborative Researcher

CiTIUS - Centro Singular de Investigación en Tecnoloxías Intelixentes

Descripción: Text mining, search, and natural language processing for the detection of Attention Deficit Hyperactivity Disorder (ADHD) based on online narratives.

March 2025 - June 2025

Internship - Backend Developer

Gsertel (Televés Corporation) - Santiago de Compostela, Spain
Description: Engineered a PDF generation backend service in Node.js for a Network Management System (NMS) and integrated it with the existing frontend via a RESTful API.

Projects

2026

Detection of Personality Disorders Based on Narratives

CiTIUS - Research Center for Intelligent Technologies

Description: Construction of a multimodal corpus from Reddit for ADHD detection using NLP techniques and language models (BERT, LLaVA-NeXT). Includes emotion, sentiment, and linguistic pattern analysis. Master's Thesis (TFM).

GitHub: https://github.com/sotelo-s/ADHD-Reddit-Research

2025

Gateway - Web Platform for Training Planning

HP Technology Observatory

Description: Designed and developed a full-stack web platform for educational planning as a Bachelor's Thesis Final Year Project.

Demo: https://usc-gateway.onrender.com/

Education

2026-Now

PhD in Information Technology Research

University of Santiago de Compostela, Spain

2025-2026

Master's Degree in Massive Data Analysis Technologies: Big Data

University of Santiago de Compostela, Spain

- **GPA**: 8.76/10

2021-2025

Computer Engineering

University of Santiago de Compostela, Spain

- **GPA**: 8.23/10
- With **High Honors** in: Calculus and Numerical Analysis, Databases I, Operating Systems I, Operating Systems II

Courses and Certifications

2026 — **A1 Level Certification in German**
Centre for Modern Languages, Santiago de Compostela, Spain

2025 — **Introducción a la Ciencia de Datos**
Santander Open Academy

2024 — **C1 Level Certification in English**
Centre for Modern Languages, Santiago de Compostela, Spain

2021 — **Information Competencies Course. Basic Level**
University of Santiago de Compostela, Spain