

IVÁN SOTILLO DEL HORNO

📍 Madrid, Spain | Open to Relocation

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EDUCATION

Universidad Autónoma de Madrid

Master's in Data Science

Madrid, Spain

Sep. 2024 – Jun. 2025

- Awarded a 10.0/10.0 on my Thesis and got it published: Automated Exploration of Conversational Agents for the Synthesis of Testing Profiles, https://doi.org/10.1007/978-3-032-05188-2_14.
- GPA: 8.41/10. Awarded Highest Honors in Recommendation Systems

Universidad Autónoma de Madrid

Bachelor's in Computer Science

Madrid, Spain

Sep. 2020 – Jun. 2024

- GPA: 8.31/10. Awarded Highest Honors in Data Structures and Mobile App Development.
- Received Excellence Scholarships in 2nd and 4th year.

Northwestern Polytechnical University (NPU)

Spring School on Gray Systems Theory

Xi'an, China

Spring 2024

University of Helsinki

Exchange Semester (Erasmus+)

Helsinki, Finland

Aug. 2023 – Dec. 2023

EXPERIENCE

Research Staff – SATORI-UAM Project

Universidad Autónoma de Madrid – MISO Research Group

Dec. 2024 – Present

Madrid, Spain

- Designed and implemented TRACER (Python, LangGraph, and OpenAI API), an agent that interacted with a chatbot to extract a model with all the chatbot functionalities and then create test cases based on it.
- Published TRACER: Automated Exploration of Conversational Agents for the Synthesis of Testing Profiles. https://doi.org/10.1007/978-3-032-05188-2_14.
- Built a full-stack web application (React, Tailwind, Django REST, PostgreSQL, Celery, Docker, Nginx) to unify all of our chatbot testing tools in a single platform.
- Currently working on an agentic assistant to help users with all of our chatbot testing tools.

PERSONAL PROJECTS

Obsidian Smart Export | TypeScript [CODE]

Current

- Developed an Obsidian plugin with a small but active user base (+1.4k downloads).
- Implemented graph-based export of interconnected notes using BFS traversal over wikilinks.

U.D.I.N. | C++, WPF, Microsoft Word Automation

2025

- Developed a desktop application for Windows to assist in vehicle modification homologation.
- Generates three official Word documents required in Spain: technical project, final work certificate, and workshop certificate.
- Used by a professional in the automotive sector; closed-source.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C, C++, Kotlin, SQL, Bash, R, HTML/CSS, LaTeX

Web Development: React, Vue, Astro, Tailwind CSS, Django, Firebase

Machine Learning & Data Science: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, SHAP, LangGraph, OpenAI API

Tools & Environments: Git, Jupyter Notebooks, Linux, VS Code, Visual Studio, Vim

Interests: Open Source Software & Contribution

LANGUAGES

Spanish: Native

English: Bilingual

French: Conversational