

IVÁN SOTILLO DEL HORNO

📍 Madrid, Spain | Open to Relocation

✉ ivansotillo@proton.me

🌐 [linkedin.com/in/ivansotillo](https://www.linkedin.com/in/ivansotillo) | github.com/LittleHaku | ivansotillo.vercel.app

EDUCATION

Universidad Autónoma de Madrid <i>Master's in Data Science</i>	Madrid, Spain Sep. 2024 – Jun. 2025
Universidad Autónoma de Madrid <i>Bachelor's in Computer Science</i> <ul style="list-style-type: none">GPA: 8.31/10. Awarded Highest Honors in Data Structures and Mobile App Development.Received Excellence Scholarships in 2nd and 4th year.	Madrid, Spain Sep. 2020 – Jun. 2024
Northwestern Polytechnical University (NPU) <i>Spring School on Gray Systems Theory</i>	Xi'an, China Spring 2024
University of Helsinki <i>Exchange Semester (Erasmus+)</i>	Helsinki, Finland Aug. 2023 – Dec. 2023

EXPERIENCE

Research Staff – SATORI-UAM Project <i>Universidad Autónoma de Madrid – MISO Research Group</i> <ul style="list-style-type: none">Built a full-stack web application using React, Tailwind, and Django REST to automate the testing of conversational agents.Designed and implemented a conversational profiler using Python, LangGraph, and OpenAI API to identify chatbot functionalities and generate user profiles.Integrated the profiler and a user simulator into the system to enable seamless end-to-end chatbot evaluation.	Dec. 2024 – Present Madrid, Spain
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KEY PROJECTS

U.D.I.N. C++, WPF, Microsoft Word Automation <ul style="list-style-type: none">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.	2025
Bachelor Thesis: Breast Cancer Detection and Explainable AI Python, Django, LaTeX [CODE] [WEB CODE] <ul style="list-style-type: none">Compared classical machine learning classifiers for breast cancer diagnosis using Scikit-learn.Applied SHAP for interpretability; presented results via a Django-based web interface.Authored a thesis in LaTeX detailing methodology, results, and insights.	2024
AnkiWannabe Kotlin, Jetpack Compose, Firebase [CODE] <ul style="list-style-type: none">Developed a mobile flashcard app with cloud syncing, user auth, and Material Design UI.Used Firebase Firestore for real-time data storage.	2024
Reversi AI Python, Minimax, Alpha-Beta Pruning [CODE] <ul style="list-style-type: none">Implemented an AI to play Reversi using classic adversarial search algorithms and heuristics.Achieved full test coverage and detailed documentation.	2023

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 Proficiency **French:** Conversational