Jesús Adrián Montesinos Correa

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Technical skills

→ `Python` (3 years) *I solve problems* in Project Euler y HackerRank. `Google Colab`, `Jupyter Notebooks`.
- *Data science* `Seaborn`, `Matplotlib`, `Pandas`, `NumPy`, `SymPy`, `Scikit-Learn`, `PyTorch`
- *Natural Language Processing* (8 months) `NLTK`, `spaCy`, `torchtext`, `contractions`, `DataLoader`, `DataSet` (PyTorch)

→ `Wolfram Language` (3 years)
- *Data science* Classification, , prediction, and clustering
- *Natural Language Processing* (8 months) Text cleaning, stemming, entity extraction, pipelines, visualizations

→ LaTeX (3 years) Macros, tables, images, *AMS* packages, multi-file documents, Overleaf, LaTeX Beamer, BIBTeX

→ *Extra* `Markdown`, `Git` y `GitHub`, `Linux` terminal
Learning `SQL`, `Web scrapping`. **Python** `lambeq`, `BeautifulSoup`. **Wolfram** Wolfram Quantum Framework

Languages
- `English` B2 Level
- `Russian` Basic level (Learning)

Technology Certifications
- `Wolfram University` *Maths* and *Programming*
- `HackerRank` *Python* and *Problem Solving*
- `Moscow Institute of Physics and Technology` Technical Writing

***Soft skills*:**

→ Teamwork creating a safe environment so that colleagues can express their ideas without fear.
→ Being objective in receiving and giving feedback to create better products in the future
→ Critical thinking to understand the situation and give possible solution ideas to optimally solve the problem.
→ Write and express ideas clearly so that others understand the idea.

Experience and Leadership

◦ **Expositor** diCu [Quantum Information Division] (September 4-6 2019) Topic *von Neumann entropy for an initial mixture of atomic field states in the Jaynes-Cummings model* visualized the behavior by plotting information from the mixture `Wolfram Mathematica`
◦ **Hackathon** winner *Digital Age's Hackathon* (December 10-11 2019) Project `Questify`, a system for creating tests and their solutions from a given text using artificial intelligence in Python
◦ **Project** LaTeXteada (January 2021 - 2022) Blog where I wrote about useful commands to create intermediate-level notes, shared some tips to better understand how to use LaTeX and recommendations on how to use unusual commands, based on my experience.
→ I have the publication in 2nd place worldwide in a `Google` search (March 2023).
◦ **Webinar** Visualización Datos y Geocomputación con el Wolfram Language (July 2022) Using `Wolfram Mathematica` I solved and graphed physics and math equations, with natural language input I obtained data from experiments and fit the results to known constants, used geocomputing to analyze distributions on maps and graphed the temperatures of Mexican beaches.
◦ **Hackathon** winner AI Hackfest Hackathon (May 12-14 2023) Using `Python` we developed a web application that allows users to upload a PDF and ask queries to which answers will be provided along with the reference text using LLMs.
◦ **Ideathon** Energy transition by MIT (29-30 May 2023) I learned to think design-based, to have clarity on what needs to be solved and that no idea is a bad idea. I improved my ability to work with multidisciplinary teams, systematically identify challenges and opportunities, and then start to generate a solution for the unknown.
◦ **Conference** Wolfram Tech Conference (November 1-3 2023) Topic *Comparison of Papers of English and non-English speakers in Physics* where we obtained information and classified physics articles, cleaned and processed the text to obtain different components, created visualizations and made a classification algorithm with 85% accuracy.
◦ **Hackathon** winner Solo Hacks 1.0 (Nov 18-19 2023) Using `Python` extracted the text from a PDF file, used a transformer to translate it from Spanish into English, and generated an MP3, and a PDF file with the text in Spanish and English.

Communities

ESCOM-IPN Innovation Community (April - August 2020)
→ Topic `Git y GitHub` (20 people) explained basic commands for creating repositories, branches, and troubleshooting errors
→ Topic Fast Fourier Transform its mathematical meaning and implemented a part of the algorithm.
→ Wrote on Medium about Probability such as counting methods, the idea of a set, and computational approximations.

Wolfram Student Ambassador (May 2022 - Actual) Program where we have to use Wolfram technologies.
→ I make videos on YouTube YouTube about Wolfram commands in aspects of Mathematics, Data Analysis, and NLP
→ I share ideas with the other ambassadors for math projects.
→ I talk to Wolfram experts to improve my coding skills and learn more about the language.