Jesús Adrián Montesinos Correa

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Technical skills

- → Python (4 years) I solve problems in Project Euler v HackerRank, Google Colab, Jupyter Notebooks, exploring MyST Markdown
 - Data science Seaborn, Matplotlib, Pandas, NumPy, SymPy, Scikit-Learn, PyTorch
 - $\bullet \ \textit{Natural Language Processing} \ (1 \ \text{year}) \ \texttt{NLTK}, \ \texttt{torchText}, \ \texttt{contractions}, \ \texttt{DataLoader}, \ \texttt{DataSet} \ (PyTorch), \ \texttt{re}, \ \texttt{Fine-Tuning} \ \texttt{Tuning} \ \texttt{Tu$
- \rightarrow Wolfram Language (4 years)
 - Maths and Physics problem solving. Data science Classification, prediction, and clustering
 - Natural Language Processing (1 year) Text cleaning, stemming, entity extraction, pipelines, visualizations
- \rightarrow LATEX (4 years) Macros, tables, images, AMS packages, multi-file documents, Overleaf, LATEX Beamer, BIBTEX
- → Extra Markdown, Git y GitHub, Linux terminal. Learning SQL, Web scrapping. Wolfram Wolfram Quantum Framework

Languages

- English B2 Level
- Russian Basic Level (Self-Learning)

Technology Certifications

- ullet Wolfram University Maths and Programming
- ullet HackerRank $Python\ and\ Problem\ Solving$
- Moscow Institute of Physics and Technology Technical Writing

Soft skills:

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

Experience and Leadership

- o MATH 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 in Mathematica o DS/AI 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
- Blog **Project LaTeXteada** (January 2021 2022) 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.
 - \rightarrow I have the publication in 2nd place worldwide in a Google search (March 2023).
- o DS/AI 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.
- o DS/AI **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.
- o DS/AI 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.
- o DS/AI **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.
- o DS/AI Conference (Spanish) Uso del modelo distilBERT para el reconocimiento de reseñas positivas y negivas en restaurantes A conference in Instituto Mexicano del Petróleo (Mexican Oil Institute) We cleaned the data using re and with PyTorch (library of Python) created the Dataset and DataLoader, implemented the distilBERT model and classified the text with an accuracy of 97%
- o DS/AI Hackathon winner HackMexico (April 13-14 2024) project Juchi where we develop a financial fraud detection (FFD), credit analysis with Messenger chatbot, and a house searching service based on the Zillow's API. For the FFD the punctuation and numbers were removed from the fraud-data with re. Using the Tokenizer from HuggingFace we fine-tuned the LLM BERT using PyTorch and DataLoader we got an accuracy of 97%
- o DS/AI Hackathon winner HackMorelos13 (May 16–18 2024) project ExpoEtico an assistant o help you with your presentations correcting speech and posture errors using CV and NLP. For the text part I used Python. pydub and speech_recognition to convert from audio to speech. Collections to count the frequency of words. Google Gemini Pro our LLM model to get the synonyms suggestions, and to compare our speech with a prompt that we need to cover. distilBERT to classify the sentimets of our feedback

Communities

ESCOM-IPN Innovation Community (April - August 2020) Presented: Git y GitHub, FFT, and Wrote on Medium

Wolfram Student Ambassador (May 2022 - Actual) Using the Wolfram Language, share ideas, and improve my coding skills