

Jesús Adrián Montesinos Correa

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Technical skills

- Python (4 years) *Problem Solving*. Google Colab, Jupyter Notebooks, Visual Studio Code
 - *Data science* Seaborn, Matplotlib, Pandas, NumPy, SymPy, Scikit-Learn,
 - *Natural Language Processing* (2 year) NLTK, torchText, Fine-Tuning, PyTorch, MongoDB (*Learning*) RAG (*Learning*)
- Wolfram Language (4 years) *Maths* and *Physics*, *Data science*, *Natural Language Processing* (2 years)
- L^AT_EX (4 years) Macros, tables, images, AMS packages, multi-file documents, [Overleaf](#), L^AT_EX Beamer, BIBT_EX
- *Extra* Markdown, Git y GitHub, Linux systems (*Learning*).

Languages	Technology Certifications
• English B2 LEVEL	• Wolfram Math and programming
• Russian BASIC LEVEL (Self-Learning)	• 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.

WORK EXPERIENCE • **Technology Associated** [Citibanamex](#) (Sep 2nd 2024 - Actual) I joined the AI and Fraud teams. I apply my knowledge of NLP and Data Science to handle various client-based needs, help with architecture, and share ideas.

Relevant experience

- **Advisor** Masters degree thesis *Ecuación de Dirac en un espacio tiempo con simetría esférica sin tétradas* where I helped in the development of programs and mathematical calculations using the Wolfram Language to simplify the time of the calculations
- **Mentor** [Wolfram High School Summer Research Program](#) (Bentley University, Boston, MA June 25–July 13, 2024) I helped students with coding in the Wolfram Language. My projects were: **a)** Analyzing 3D shapes for virtual reality creation, **b)** Plot range for dynamic visualizations, and **c)** N-Grams in language families.
- **Community** **Wolfram Student Ambassador** (May 2022 - Actual) Use Wolfram Language, share ideas, improve my coding skills
- **Expositor** [Wolfram Tech Conference](#) (October 16-18 2024) Topic *An Analysis of Colloquialisms: Spanish from Mexico and Spain* as part of the Projects from Wolfram Student Leadership Programs where we compared the structure and relations of these words
- **Featured Contributor** in the [Wolfram Community](#) where I have been publishing post about randomness using mathematical functions, analyzing distributions of numbers and different areas related to Neural Networks and Math
- **Expert Contributor Article** in [Built In](#) with the post [How to Include Side-by-Side Images in LaTeX](#) where I talk about how to add images in L^AT_EX using the package `graphicx` and the environment `figure`, as well as the `minipage` environment.
- **Conference** (*Spanish*) *Uso del modelo distilBERT para el reconocimiento de reseñas positivas y negivas en restaurantes* A conference in Instituto Mexicano del Petróleo We used `re`, `PyTorch`, implemented `distilBERT` and classified the text with an accuracy of 97%
- **Expositor** [Wolfram Tech Conference](#) (November 1-3 2023) Topic *Comparison of Papers of English and non-English speakers in Physics* we classified physics articles, created visualizations and made a classification algorithm with 85% accuracy.

Hacks

- DS/AI - **Hackathon** winner [HackMorelos13](#) (May 16–18 2024) project [ExpoEtico](#) an assistant to 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 sentiments of our feedback
- 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 . Using the `Tokenizer` from `HuggingFace` we fine-tuned the LLM BERT using `PyTorch` and `DataLoader` we got an accuracy of 97%
- 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.
- **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.
- 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.
- **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 L^AT_EX and recommendations on how to use unusual commands, based on my experience.
- **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`