Cristobal Medina Meza

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EDUCATION

Tecnologico de Monterrey   Aug 2022 – Jun 2026
B.S in Data Science and Mathematics Engineering   *Guadalajara, Jalisco*
GPA 93/100

EXPERIENCE

Meta   Jun 2024 – Aug 2024
Software Engineering Intern   *Menlo Park, California*
- Designed a full-stack event management application with features including user authentication, event creation, and management.
- Integrated PostgreSQL for robust database management and enhanced user data security.
- Implemented APIs for maps, Distance Matrix, and Directions to provide seamless navigation and event location services.

Tecnologico de Monterrey   Feb 2023 – Apr 2024
Undergraduate Research Assistant   *Guadalajara, Jalisco*
- Developed Python scripts to analyze and model properties of nanomaterials.
- Designed Python scripts to arrange and normalize data stored in Excel files.
- Generated custom data visualization scripts with Matplotlib & Seaborn; generated over 25 visually appealing graphs and charts, facilitating successful presentations to clients and increasing engagement in project discussions.

PROJECTS

Tweets sentiment analysis | *Python, Excel, Pandas, Sklearn*   Jul 2023 – Sep 2023
- Completed data preprocessing tasks, including text cleaning, tokenization, and removing stopwords.
- Selected appropriate machine learning models: Naive Bayes, Random Forest and SVM. For sentiment analysis.
- Vectorized qualitative data to enable deeper analysis.
- Created 7 visualizations, such as word clouds or sentiment distribution plots, to better understand the data and model results.

FinancIA | *Python, Tableau, Excel*   Aug 2023
- Performed data mining tasks to obtain insightful data about investments.
- Trained a neural network to improve the recommendations performance by 15%.
- Executed data cleaning and preprocessing tasks, improving our model's accuracy by 20%
- Pitched an AI investments consultancy, showcasing innovative solutions, and contributed to our team's victory in the track.

AWARDS AND HONORS

Hackathons   2023 – 2024
- **Startup Weekend Fintech 2024 Winner:** Secured first place in a 72-hour hackathon competing against over 400 participants.
- **Guadalahacks 2024 Director:** Directed and helped create the hackathon Guadalahacks, which received over 90 participants in its first edition.
- **HackMTY 2023 Winner:** Won the Banorte track at HackMTY 2023, the biggest hackathon in Latin America.

TECHNICAL SKILLS

Programming languages: Python, JavaScript, MATLAB, R, C++
Developer Tools: Tableau, Google Colab, Visual Studio, Jupiter notebook, GitHub, PostgreSQL, Css
Libraries: Pandas, Sklearn, NumPy, Matplotlib, Seaborn, Statsmodels, Nltk, React
Languages: Native Spanish, English Bilingual Proficiency, German Limited Working Proficiency