Carlos Mateo Jurado Díaz

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Bioengineer with experience in neuromodulation and medical devices, currently pursuing a Master in Artificial Intelligence. Specialized in Machine Learning and Deep Learning, I have skills in programming (Python), data analysis and cloud technologies, with interest in AI solutions for health and technology.

EXPERIENCE

Universidad Autónoma de Zacatecas   **Remote**
Data Science Intern   *September 2024 - Present*

- Performed advanced data preprocessing and feature selection, significantly enhancing the accuracy and relevance of mental health analysis data in academic settings.
- Designed, tested, and optimized various machine learning models to select the best algorithms for emotional health data analysis.
- Built an interactive dashboard for real-time result visualization, making insights more accessible and user-friendly for psychological experts.
- Collaborated with interdisciplinary teams to ensure AI models met both technical and clinical standards required for the mental health initiative.

Medtronic   **Bucaramanga, Colombia**
External support   *February 2023 - Present*

- Provided specialized surgical support for neuromodulation procedures, prioritizing patient safety and optimizing therapeutic outcomes.
- Configured neurostimulators to tailor therapy to individual patient needs, enhancing the effectiveness of treatments.
- Assisted in MRI procedures, ensuring high-quality imaging and prioritizing patient comfort throughout the process.
- Educated patients on neuromodulation therapies, promoting understanding and adherence to personalized treatment plans.

Universidad de Antioquia   **Medellín, Colombia**
Research Student   *September 2021 - April 2022*

- Designed and integrated high-performance analog filters for sEMG signal acquisition systems, enhancing signal clarity and overall system functionality.
- Developed PCB layouts to improve signal integrity and reduce noise in data acquisition systems, contributing to greater data accuracy.

Universidad de Antioquia   **Medellín, Colombia**
Laboratory Monitor   *November 2021 - March 2022*

- Oversaw laboratory setup, guided students in executing procedures, provided feedback on lab reports, and managed inventory to ensure seamless experimental processes and equipment readiness.

EDUCATION

Universidad Internacional de La Rioja (UNIR) **Remote**
Master in Artificial Intelligence *In process*

Universidad Internacional de La Rioja (UNIR) **Remote**
Advanced University Course in Data Analyst for Artificial Intelligence *In process*

Universidad de Antioquia **Medellín, Colombia**
Bioengineering *June 2022*
Honors: Honors in the 2019-2 semester and academic exchange at the Universidad
Veracruzana in Mexico in 2019.

LANGUAGES

- Spanish: native.
- English: B2.

CERTIFICATES

- Curso de Programación en Python, Universidad Internacional de La Rioja (UNIR), Noviembre 2024.
- Inteligencia Artificial Para Docentes, UDEL, Octubre 2024.
- Primeros auxilios, SENA, Octubre 2024.
- Prompt Engineering for Everyone, Cognitive Class, Octubre 2024.
- Applied Data Science with Python - Level 2, IBM, Septiembre 2024.
- Data Analysis Using Python, Cognitive Class, Septiembre 2024.
- Data Visualization Using Python, Cognitive Class, Septiembre 2024.
- Python for Data Science, Cognitive Class, Septiembre 2024.
- SQL and Relational Databases 101, Cognitive Class, Septiembre 2024.
- Continuing Education Certificate in Leadership, MIU City University Miami, Abril 2024.
- Azure Fundamentals, Microsoft, Marzo 2024.
- GitHub Fundamentals, Microsoft, Marzo 2024.
- Programa Nacional de Tecnovigilancia, Invima Colombia, Agosto 2023.
- New Hire Training: DBS Advance Training, Medtronic, Febrero 2023.
- New Hire Training: DBS Introductory Training, Medtronic, Febrero 2023.
- New Hire Training: Pain Therapies LATAM Interventional, Medtronic, Febrero 2023.
- Recurso Humano para Mantenimiento y Verificación de la calibración para Equipos Biomédicos de Tecnología Controlada de clases IIb y III, Invima Colombia, Julio 2022.
- Tarjeta profesional, COPNIA, Junio 2022.