

Carlos Mateo Jurado Díaz

Floridablanca, Colombia · [linkedin.com/in/engjurado](https://www.linkedin.com/in/engjurado) · +57 3057758370 · eng.jurado@gmail.com

Professional Summary

Bioengineering Engineer pursuing a Master's in Artificial Intelligence (Expected graduation: March 2025). Experience in developing and implementing Machine Learning and Deep Learning models, data analysis, and process optimization. Skilled in working with interdisciplinary teams, applying AI-based innovative solutions. Proficient in Python, TensorFlow, cloud computing, and data visualization.

Professional Experience

Medtronic

External Support

Bucaramanga, Colombia | February 2023 – Present

- Provided technical support in neuromodulation procedures, ensuring the proper functioning of medical devices.
- Diagnosed and resolved issues with neurostimulation equipment during clinical procedures.
- Trained physicians and healthcare personnel on the correct use of the equipment.
- Collaborated with medical teams to optimize processes and ensure patient safety.

Autonomous University of Zacatecas

Data Science Intern

Remote | September 2024 – December 2024

- Advanced data preprocessing and feature selection to improve the accuracy of mental health analysis models.
- Developed and optimized Machine Learning models to identify patterns in emotional health data.
- Created interactive dashboards for real-time visualization of results.
- Collaborated with multidisciplinary teams to ensure technical and clinical standards in AI-based solutions.

University of Antioquia

Research Student

Medellín, Colombia | September 2021 – April 2022

- Developed analog filters and designed PCBs to enhance sEMG signal acquisition.
- Optimized hardware to improve signal quality in biomedical devices.

Education

Master's in Artificial Intelligence

International University of La Rioja (UNIR) | Remote | *In progress*

Bioengineering

University of Antioquia | Medellín, Colombia | *June 2022*

- Awarded Academic Honors in the 2019-2 semester.
 - Participated in an academic exchange program at the University of Veracruz, Mexico (2019).
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Languages

- **Spanish:** Native.
 - **English:** B2.
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Technical Skills

- **Machine Learning & Deep Learning** (TensorFlow, Scikit-learn, PyTorch)
 - **Python Programming** (Pandas, NumPy, OpenCV)
 - **Data Analysis & Visualization** (Matplotlib, Seaborn)
 - **Cloud Computing** (Azure)
 - **SQL & Relational Databases**
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Certifications

- **Python Programming Course**, International University of La Rioja (UNIR), November 2024.
- **Prompt Engineering for Everyone**, Cognitive Class, October 2024.
- **Applied Data Science with Python - Level 2**, IBM, September 2024.
- **Data Analysis Using Python**, Cognitive Class, September 2024.
- **Data Visualization Using Python**, Cognitive Class, September 2024.
- **Python for Data Science**, Cognitive Class, September 2024.
- **SQL and Relational Databases 101**, Cognitive Class, September 2024.
- **Continuing Education Certificate in Leadership**, MIU City University Miami, April 2024.
- **Azure Fundamentals**, Microsoft, March 2024.
- **GitHub Fundamentals**, Microsoft, March 2024.