

Carlos Mateo Jurado Díaz

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

Professional Summary

Bioengineer, soon to graduate with a Master's in Artificial Intelligence, leveraging advanced data analysis, machine learning, and cloud computing skills to drive innovation in biomedical applications. Proven ability to develop and deploy AI models for mental health analysis, optimize biomedical hardware, and provide critical technical support in neuromodulation procedures. Proficient in Python, TensorFlow, Scikit-learn, and a comprehensive suite of data visualization and cloud platform tools (Pandas, NumPy, Matplotlib, Azure, AWS, etc.). Adept at working with interdisciplinary teams to deliver impactful AI-driven solutions.

Professional Experience

Medtronic

External Support

Bucaramanga, Colombia | February 2023 – Present

- Delivered on-site technical support for neuromodulation procedures, maintaining optimal functionality of neurostimulation equipment.
- Diagnosed and resolved technical malfunctions during clinical procedures, ensuring patient safety.
- Conducted patient and family training on proper medical device operation.
- Collaborated with medical teams to streamline processes and enhance patient care.

Autonomous University of Zacatecas

Data Science Intern

Remote | September 2024 – December 2024

- Enhanced mental health analysis models through advanced data preprocessing and feature selection.
- Developed and optimized machine learning models for emotional health pattern identification.
- Designed interactive dashboards for real-time data visualization.
- Collaborated with multidisciplinary teams to uphold technical and clinical standards in AI solutions.

University of Antioquia

Research Student

Medellín, Colombia | September 2021 – April 2022

- Engineered analog filters and designed PCBs to improve sEMG signal acquisition.
- Optimized hardware to enhance 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

- **Data Analysis:** Pandas, NumPy, SciPy, SQL
 - **Data Visualization:** Matplotlib, Seaborn, Bokeh, Plotly, Microsoft Power BI, Tableau
 - **Modeling and Algorithms:** TensorFlow, Scikit-learn, PyTorch, Keras
 - **Natural Language Processing (NLP):** spaCy
 - **Computer Vision:** OpenCV
 - **Programming Languages:** Python, JavaScript, R
 - **Web Development:** Flask, HTML, CSS, Bootstrap, Streamlit
 - **Work Environments:** Jupyter Notebook, JupyterLab, VS Code, Bash
 - **Cloud Platforms:** Microsoft Azure, AWS SageMaker, Google Colab, GitHub
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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.