

Gonzalo Grau

Bioengineer
Specialized in Machine Learning and Data Science

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GitHub

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EDUCATION

- **Bioengineering** 2020-2025
Buenos Aires Institute of Technology (ITBA) Grade avg.: 8.71/10.0
- **Friends of Fulbright 2024 exchange program** Spring 2024
University of New Mexico Completed

EXPERIENCE

- **Data Scientist at Entelai** Sep 2025 - Present day
– Development and maintenance of ML models for medical image analysis
– End-to-end deployment of deep learning models in clinical environments
– Skills: Python, PyTorch, OpenCV, Medical Imaging, Git, BitBucket, Docker, Agile
- **AI Internship at Biwares** Mar 2025 - Sep 2025
– Maintenance and development of an AI virtual assistant for a bank
– Creation of tools to streamline model evaluation in production
– Skills: OpenAI, Langgraph, Langchain, Git, GitHub, API management, Prompting, Scrum
- **Applied AI Engineering Internship at DevRev** Dec 2024 - Mar 2025
– Development of AI-powered automations to optimize internal processes
– Evaluation and implementation of AI agents for customer support
– Skills: Typescript, Git, GitHub, API management, Unit testing, Prompting, Scrum

PERSONAL PROJECTS

- **CABRA: Computerized Auditory Brainstem Response Device**
Awarded the IEEE EMBS Best Student Project prize at SABI 2025
– Low-cost ABR testing device for hearing threshold estimation
– Technologies: ESP-32S, PCB, C++, Python, Signal Processing
- **CircDrosView: Drosophila Melanogaster single-cell transcriptomics visualizer**
Based on Rosbash's 2021 circadian neuron taxonomy paper
– ETL pipeline and visualization suite for RNA-seq data analysis
– Technologies: Python, NumPy, Pandas, Seaborn, Scanpy, Streamlit
- **AI-Assisted Prenatal Ultrasound Analysis System**
Automated nuchal translucency and nasal bone detection in real-time for first-trimester fetal screening
– MobileNet-v3 frame classifier and YOLO-v8 object detector
– Cloud platform for real-time data collection and processing
– Technologies: Python, MobileNet-v3, YOLO-v8, MLflow, PyTorch, Docker, GCP

TECHNICAL SKILLS AND INTERESTS

Languages: Spanish (native), English (bilingual proficiency), French (intermediate)
Programming Languages: C, Python, MATLAB, Arduino, Typescript, Bash
Libraries: Numpy, Matplotlib, Jupyter, Scipy, Pandas, AWS, GCP, sklearn, OpenCV, PyTorch, Langchain, Langgraph
Tools: VS Code, Git, GitHub, BitBucket, Linux, Trello, MS Office, Siemens NX, SolidWorks, mySql, L^AT_EX
Fields of Interest: ML, AI, Deep Learning, Computational Modeling, Signal Processing, Computer Vision
Soft Skills: Self-taught, Adaptability, Agile methodology, Scrum framework

CERTIFICATIONS

- **MITx Machine Learning with Python: From Linear Models to Deep Learning** 2024
- **MITx Introduction to Computer Science and Programming Using Python** 2022
- **Cambridge Certificate of Proficiency in English (CPE)** 2019
- **International Baccalaureate (IB)** 2019
- **High School Head Pupil and Valedictorian** 2019