Gonzalo Grau

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Senior Bioengineering student at ITBA,
specialized in Machine Learning and Artificial Intelligence

EDUCATION

•**Bioengineering - Senior year (96%)**   *2020-ongoing*
Buenos Aires Institute of Technology   Grade avg.: 8.70/10.0

•**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, sklearn, OpenCV, PyTorch, Langchain, Langgraph
Tools: VS Code, Git, GitHub, BitBucket, Linux, Trello, MS Office, Siemens NX, SolidWorks, mySql, LaTeX
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*