

Gonzalo Grau

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

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GitHub

LinkedIn

EDUCATION

•Bioengineering - Senior year (96%)

Buenos Aires Institute of Technology

2020-ongoing

Grade avg.: 8.70/10.0

•Friends of Fulbright 2024 exchange program

University of New Mexico

Spring 2024

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