

Gonzalo Grau

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

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GitHub

LinkedIn

EDUCATION

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| •Bioengineering | 2020-ongoing |
| <i>Buenos Aires Institute of Technology</i> | CGPA: 3.43 |
| •Friends of Fulbright 2024 exchange program | Spring 2024 |
| <i>University of New Mexico</i> | Pass |

EXPERIENCE

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| •Applied AI Engineering Internship at DevRev | Dec 2024 - Present day |
| – Worked alongside the Applied AI team from Argentina and India developing AI powered automations | |
| – Provided tailored support for our clients, with a customer-facing approach | |
| – Skills involved: Typescript, git, github, API management, unit testing, prompt engineering, sprint planning | |
| • Vice president at the IEEE EMBS ITBA Student Chapter | Aug 2022 - July 2024 |
| – Vicepresident for the IEEE Engineering in Medicine and Biology Society student chapter at the Buenos Aires Institute of Technology | |
| – Skills involved: team leading, event planning, working alongside state-of-the-art companies and researchers | |
| •Teaching assistant at ITBA | Aug 2021 - Present day |
| – Worked alongside CS professors leading classes in Introduction to Informatics and Data Structures and Algorithms | |
| – Became proficient in Python programming, source control, and public speaking | |

PERSONAL PROJECTS

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| •LungoVax: an interactive mechanical ventilation simulator |
| <i>Awarded a special mention at the Argentinian physiology conference 2023</i> |
| – Models lung response under a wide range of stimuli and experimental conditions |
| – Runs on a self-implemented Runge-Kutta 4 based differential equation solver engine |
| – Technology Used: Python, Numpy, TKinter |
| •Real-time seizure detection |
| <i>A machine learning model to detect seizure events in real time based on EEG analysis</i> |
| – Uses support vector machine to classify short multichannel signal segments |
| – Performs spatial, statistical, and Fourier analysis |
| – Technology used: Python, Numpy, Scikit-learn, Scipy. |
| •Semi-automatic nuchal translucency measurement |
| <i>An objective, user independent algorithm to measure nuchal translucency in ultrasound fetal scan</i> |
| – Deep learning based image segmentation, combined with generalized linear regression models |
| – Technology Used: Python, Numpy, OpenCV, SITK, keras |

TECHNICAL SKILLS AND INTERESTS

Languages: Spanish (native), English (proficient), French (intermediate)

Programming Languages: C, Python, MATLAB, Arduino

Libraries : Numpy, Matplotlib, Jupyter, Scipy, Pandas, sklearn, OpenCV, PyTorch

Other Tools: VScode, Git, Github, Linux, Trello, MS Office, NX, SolidWorks, mySql, L^AT_EX

Areas of Interest: ML, AI, Deep Learning, Computational Modeling, Signal Processing, Computer Vision

Soft Skills: Problem Solving, Self-learning, Adaptability, Agile methodology, Scrum framework

CERTIFICATIONS

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| •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 |