GERARDO ANTONIO CORRAL RUIZ

Machine Learning & AI • Causal Inference • Data Science
Master's Student in Digital Innovation and Governance

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PROFESSIONAL SUMMARY

Master's student in **Digital Innovation and Governance** at the **University of Bologna (LM-91)**, specializing in **machine learning and artificial intelligence with critical approaches to governance and digital transformation**. Developed **machine learning projects for public health**, using **open data** from sources such as ISTAT, Open-Meteo, and Kaggle. I build my **analytics toolkit daily with Python and R** and pursue **research in causal inference**. Proficient in **agile work methodologies**, with experience using tools such as **Notion, Taiga, Essence Workbench, Slack, and Airtable**. With my students, I **address contemporary philosophical debates** on technology and digital ethics, linking these topics to the interactions between **technology, society, and governance**.

EDUCATION

◆ **Master's Degree in Digital Innovation and Governance (LM-91), University of Bologna, Italy**   **2024–2026**

- **Machine Learning for Cardiovascular Disease Detection** (*Laboratorio di Programmazione*, INF-05/A, 2024)
I implemented Support Vector Machine (SVM) and Decision Trees to classify cardiovascular risk in a dataset of 240 individuals.
- **Moderate and Extreme Temperatures and Climate-Health Risk in Bologna: A Data-Driven Climate Risk Study** (*Metodi Informatici per la Trasformazione Digitale,* INF-05/A, 2025)
I developed a machine learning methodology to identify high-risk days for vulnerable groups, providing targeted support for public health prevention and policy-making.
- **The Digital Panopticon of Artificial Intelligence: between Safety and Freedom** (*Governance e Diritto delle Ppaa, IUS/09, 2024*)
I analyzed the impact of AI on public security in Europe, with a particular focus on the AI Act, GDPR, and EU Regulation 2024/1689.
- **Elected as the class representative.**

◆ **Bachelor's Degree in Philosophy, Universidad Panamericana, Mexico**   **2018–2023**

- Publication of an article on generative AI for El Universal (2022): https://www.generacionuniversitaria.com.mx/tu-voz/dibujo-asistido-por-inteligencia-artificial-es-arte
- President of the Student Council of the Faculty of Philosophy (Aug 2021 – Jun 2022)

◆ **Bachelor's Degree in Engineering in Digital Animation and Video Game Programming (incomplete), Universidad Panamericana, Mexico**   **2017–2019**

PROFESSIONAL EXPERIENCE

University and High School Teacher
- *Universidad Panamericana* – Course on **Selected Topics in Contemporary Culture** (online lectures, 3 hours per week)   **2025–Now**
- *Northridge School Mexico* – Full-time **Spanish** and **Philosophy** courses   **2023–2024**

Product Owner at PCI Lab   **2020–2022**
Development of a **serious game** with the Narrative Design Team to promote **emotional intelligence among 15–18-year-olds**. We adopted **Agile (Scrum) with weekly sprints, using Airtable for the backlog, roadmap, and Kanban boards, and Slack for real-time coordination.** The project received the **ILAN Innovation Award**.
Website: https://www.linkedin.com/company/pcilabup/

CERTIFICATIONS, COURSES, CONFERENCES & OTHER EXPERIENCES

AI, DATA SCIENCE & BUSINESS ANALYTICS

Intelligenza artificiale e business intelligence: strumenti e algoretica – IFOA	2025
EITC/AI/MLP Machine Learning with Python – European Information Technologies Certification Institute (EITCI)	2025
Seminario LEEIA Lógica, Epistemología y Ética de la Inteligencia Artificial – Universidad Panamericana	2025
Strumenti di data analysis e visualization – IFOA	2025
EITC/CP/PPF Python Programming Fundamentals – European Information Technologies Certification Institute (EITCI)	2025
Business Analytics with Excel: Elementary to Advanced – Johns Hopkins University	2023
What is Data Science? – IBM	2023
PredictionX: Omens, Oracles & Prophecies – HarvardX	2020

MANAGEMENT & INNOVATION

Management: A Professional Future – IESE, University of Navarra, Barcelona	2023
Introducción a la Dirección de Empresas (IDE) – IPADE Business School	2021

DIGITAL ARTS, CREATIVITY & STORYTELLING

Story and Narrative Development for Video Games & Introduction to Game Design – California Institute of the Arts	2022
Modern Arts & Ideas – MoMA Certificate	2021
Studied Cinematography and Digital Post-Production – SAE Institute	2019-2020

PUBLIC SPEAKING & RESEARCH

Conference Speaker: "Identidad líquida en tiempos de redes sociales" – Instituto Antonio Nariño, Colombia	2024
Academic & Research Assistant – Dr. Héctor Zagal @ Universidad Panamericana	2018–2023

HARD SKILLS

- **Agile work:** Essence Workbench, Taiga, Notion, Slack, Airtable, Protégé, LaTeX
- **Data analysis tools:** Python (Pandas, Seaborn, Numpy, Sklearn, DoWhy), R, SQL, Git, JavaScript
- **Generative AI tools:** ChatGPT, Gemini, NotebookLM, Sora, Midjourney, Leonardo.AI
- **Design & video editing tools:** Adobe (Premiere, Photoshop, After Effects), Canva
- **Microsoft Office:** Word, PowerPoint, Excel

LANGUAGES

- **Native:** Spanish
- **Proficient:** English, Italian
- **Basic:** Japanese