

Alejandro Leonardo García Navarro

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SKILLS

- **Programming languages:** Python, R.
- **Web Development:** HTML/XHTML, CSS.
- **Databases:** SQL, NoSQL (MongoDB, Neo4j).
- **Big Data and Machine Learning:** PySpark, Python (numpy, pandas, matplotlib, scikit-learn).
- **Miscellaneous Technologies:** Excel, Git.
- **Languages:** Spanish, English (Certificate in Advanced English), French.

PROFESSIONAL EXPERIENCE

Universidad Carlos III de Madrid

Madrid, ES

Research Assistant

September 2023 – Present

- Design of algorithms based on Reinforcement Learning and Deep Reinforcement Learning for the control of communication networks using R.
- Application of prompt engineering in researching the boundaries of artificial intelligence by analyzing and adapting queries for LLMs (ChatGPT, Bard, Mistral, LLaMA).
- Evaluation of ChatGPT (versions 3.5 and 4) with Wolfram Mathematica for mathematical problem-solving, focusing on the AI's response accuracy under different instruction levels.

EDUCATION

Concordia University

Montreal, QC

Concordia Student Exchange Program (CSEP)

September 2023 – Present

- Relevant Coursework: Artificial Intelligence, Computer Vision.
- Beca Santander Estudios (Awarded highest economic endowment based on my academic performance).

Universidad Carlos III de Madrid

Madrid, ES

Bachelor's degree in Data Science and Engineering

2021 - Present

- Relevant Coursework: Programming, Probability and Data Analysis, Data structures and algorithms, Introduction to Statistical Modeling, Data Base, Statistical Learning, Machine Learning I, Predictive Modeling, Massive computing.
- MEC Scholarship (Awarded with academic excellence in all academic years).
- Additional information: class subdelegate (2022 – 2023).

VOLUNTEERING

Amazon

Remote

Amazon Discover: Spring Technology Insights mentee

June 2023 – June 2023

- Participation in mentoring program aimed to develop student employability and software engineering skills.
- Learned technical skills, problem solving and soft skills during workshops, talks and events designed for university students, which helped me boost my technical and non-technical skills.

Universidad Carlos III de Madrid

Madrid, Spain

Mentor of the 3rd Gymkhana 'Data Science'

October 2022 – May 2023

- Mentoring of students to carry out a challenge that consists of visualizing and interpreting data related to climate change. The theme responds to the Sustainable Development Goal (SDG) 13: "Climate Action" of the United Nations.
- Collaborated in the preparation of didactic material on databases and big data techniques and in charge of mentor-student communications.

WWF

Volunteer

Canary Islands, Spain

August 2022 – September 2022

- This activity pursues the objective of contributing to the conservation of the natural values of the Chinijo Archipelago.
- Volunteering tasks: restoration of the coast of the island of La Graciosa, environmental awareness activities for visitors and studies on the state of conservation of natural resources.