GIOVANNI MARRAFFINI

EDUCATION

Master Data ☐ 2022 Science – 2024

Universidad de Buenos Aires

academic average: 9.30/10 GPA

BS Data Science 2019
Universidad de - 2022
Buenos Aires

academic average: 8.75/10 GPA

TECHNOLOGIES

Python	Azure	OpenAl
Langchain	SQL	Pyserini
Langsmith	PyTorch	C++
R	Julia	Java
JavaScript	С	Haskell

CORE SKILLS

Data Science & ML
NLP, Data Analysis, Machine
Learning, Supervised Learning,
Artificial Neural Networks, Transformers, ViT.

Statistical Methods

Statistical Models, Parametric and non-parametric tests, Monte Carlo Simulation, Statistical Programming.

 algorithm design paradigms Divide and Conquer, backtracking, greedy algorithms, dynamic programming.

Operations Research

Linear programming, optimization, graph theory, min cost max flow, GRASP, Simplex.

LANGUAGES

- Spanish (Native)
- English (Proficient)

OTHER

Full Stack Developer 2019

• HTML, Javascript, CSS, Bootstrap, SQL, PHP.

Cryptocurrency 2019 miner - 2022

Data Scientist | AI Engineer | NLP Specialist

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GioMarraffini

WORK EXPERIENCE

NLP Engineer

12/2023 - Present

Lumina Labs

Creating an AI to generate financial presentations from unstructured documents

PUBLICATIONS

The Greatest Good Benchmark: Measuring LLMs' Alignment with Utilitarian

□ 08/2023 - 07/2024■ Miami, Florida

Moral Dilemmas

EMNLP 2024 (Main conference)

Marraffini, G. , Cotton, A. , Hsueh, N. , Wisznia, J. , Fridman, A. , Del Corro, L.

RESEARCH EXPERIENCE

Founder - Paper reading club

09/2023 - Present

Universidad de Buenos Aires

A paper reading club for data science and computer science students to stay updated on the latest research. Club del Paper

Research assistant

Ö 02/2024 - 06/2024

Universidad de Buenos Aires

Analyze EEG data from subjects viewing images, comparing the timing of human visual processing with the activation layers in Vision Transformers (ViT).

NLP Researcher

□ 06/2023 - 12/2023

Universidad de Buenos Aires

Researching for the Ministry of Labour on the impact of large language models (LLMs) on job roles and potential changes in employment due to technology.

TEACHING EXPERIENCE

Teaching Fellow

📋 06/2024 - Present

Universidad de Buenos Aires

Introductory and advanced algorithm courses for Data Science and Computer science.

Teaching assistant

Universidad Torcuato Di Tella

Teaching Graph Theory and Computational Business Applications.

RELEVANT PROJECTS

Reranking for Retrieval-Augmented Generation (RAG)

□ 02/2024 - Present

Collaborative Research

Working with NLP researchers to refine the ranking of results in RAG, enhancing the relevance and efficiency of the search algorithms.