



Matias Nehuen  
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# Matias Nehuen Iglesias

With a Master's degree in Physics and a PhD in Economics, I am an experienced data scientist and independent developer, possessing a deep understanding of data analysis, machine learning, and statistical modeling. I recently dedicated to developing innovative AI solutions for real-world problems, by means of some independent projects. Skilled in utilizing a diverse toolkit that includes data science and web application development skills, I am passionate about leveraging data and AI to drive meaningful change. My work demonstrates a strong ability to interpret complex datasets, extract actionable insights, and implement AI systems that enhance decision-making, efficiency, and societal wellbeing.

## Skills

Data Analysis | Machine Learning | Statistical Modeling | Python | R | SQL | Excel | Flask | Software Development | AI System Design | Team Management | Problem Solving

## Experience

**Director of Data Analysis, Ministry of Security of Buenos Aires Province** Jun 2021 – Sep 2022



- Led a team of data analysts and software developers in creating a comprehensive data analytics platform for the province's police force.
- Implemented machine learning models to predict crime patterns and allocate police resources more effectively.

**Short-Term Consultant, World Bank Group** Jul 2021 – Jul 2022



- Assisted researchers and other consultants with the use of GIS and machine learning
- Provided technical assistance to project teams

## AI and Machine Learning Experience

- **Independent Developer, The Poverty Map Project, Argentina. (2019 - )**

Utilized advanced data analysis and predictive modeling techniques to generate a detailed poverty map, providing invaluable insights for policy-making and social initiatives. I can guarantee accurate estimation of poverty and social indicators from ML models trained on household surveys, plus census data at the individual level.

[Project Link](#)

- **Author, AI Analysis of Government Legislation (Dec 2023)**

With this work I leveraged AI to create the fastest and most detailed analysis available within a single day of the government's introduction of a very complex 660-article law. This was for me just one more example of how software + AI has the potential to transform any industry! And so my interest in working with these technologies continued to grow over time. [Project Link](#)

- **Teaching, Técnicas de Diseño de Algoritmos Course, University of Buenos Aires (UBA) (Mar 2024)**

Pioneered the development and implementation of a Flask-based Python web application designed to enhance educational experiences through AI. The platform lets artificial intelligence interact with student inquiries, significantly reducing teacher workload and improving student satisfaction. This innovation has the potential to enable more efficient and engaging learning environments. [App Link](#) — [GitHub Repo](#)

## Education



**UBA**  
Universidad de Buenos Aires

**Physics MSc** Universidad de Buenos Aires, 2009 - 2015 Thesis: "Vortex Dynamics in Iron Based Superconductors" [[link to thesis](#)]

**Economics PhD** Scuola Sup Sant'Anna Università di Pisa, 2016 - 2020 Thesis: "Economics of Aggregation in Empirical Contexts" [[link to thesis](#)]

## Further Experience

**Visiting Fellow, Harvard Kennedy School** Sep 2018 – Sep 2019



**HARVARD Kennedy School**  
JOHN F. KENNEDY SCHOOL OF GOVERNMENT

- Conducted research on economic development and growth by applying strong applied math skills and data-driven approaches.
- Supported Principal Investigators in producing academic papers.

**Visiting Student Researcher, Caltech** Jul 2015 – Sep 2015

### Caltech

- Conducted research on quantum information and computation.
- I supported research activities by designing, optimizing fabrication techniques, and characterizing a lumped element quantum bit.