

# ANDREI NOGUERA

DATA SCIENTIST



## CONTACT ME

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in Andrei-ng

🌐 <https://andnog.github.io/andrei.github.io>



## PROFILE

PhD candidate in Artificial Intelligence with a Master's in Data Science and a background in Information Technology. Experienced as a Data Scientist and Software Engineer, I bridge AI research with real-world applications, specializing in machine learning and data-driven solutions.

Actively engage in initiatives, hackathons, and competitions. Committed to continuous learning, I leverage my expertise to develop impactful AI technologies that drive innovation and shape the future of technology.

## SKILLS

- Machine Learning, AI & Gen AI
- Data Analysis
- Problem Solving
- Cloud Computing
- Computer Literacy
- Critical Thinking
- Strong Communication
- Creativity
- Collaboration
- Attention to Detail

## EXPERIENCE

Works

### TIENDA PAGO

#### DATA SCIENTIST

DIC 2021 - Present

- Build and implement ML models to solve complex problems
- Analyze large datasets and extract insights
- Deploy and monitor ML models in production
- Communicate findings and create clear documentation
- Collaborate with teams to integrate solutions into products

#### SOFTWARE DEVELOPMENT ENGINEER

AGO 2019 - DIC 2021

- Develop and implement software applications and systems.
- Collaborate with cross-functional teams to design efficient solutions.
- Write clean, maintainable, and scalable code.
- Integrate APIs and third-party services.
- Participate in code reviews and ensure best practices.

### UNIVERSIDAD PANAMERICANA

#### SOFTWARE DEVELOPER INTERN

JAN 2018 - JUL 2019

- Assist in creating software solutions for internal services.
- Learn and apply best practices in software development.
- Participate in Operative System administration tasks and database management.

## EDUCATION

### PHD ARTIFICIAL INTELLIGENCE

Universidad Panamericana  
2023 - 2027 (Present)

### MASTER IN DATA SCIENCE

Universidad Panamericana  
2021 - 2022

### ENGINEERING IN INFORMATION TECHNOLOGIES

Universidad Panamericana  
2015 - 2019

# PROJECTS

## IEEE CISOSE (ISADS): AI RESEARCH PRESENTATION

International Symposium on Autonomous Decentralized Systems  
JULY 2025 (Accepted )

- Analyzing Decentralized Agent Strategies: Kolmogorov-Arnold Networks Interpretation of Multi-Agent Pursuit in Urban Simulation
- Applying deep reinforcement learning to multi-agent vehicles

## WEBSITE TO FACILITATE LABOR CONCILIATION

CONACENTROS (Consulting Project)

2023 – 2024

- Led the technology team in developing core features.
- Implemented Landing Page, CMS, Chatbot, Indemnization Calculator, and appointment booking system.
- Utilized Laravel, Statamic, BotMan, MySQL, and Power BI for development and data visualization.

## DATA SCIENCE MASTER'S JURY COMMITTEE MEMBER

Universidad Panamericana

2022 – Present

- Identify and address value-generating in students tesis projects.
- Provided constructive feedback on implementation and presentation.

## OPTIMIZING SPORTS PERFORMANCE WITH AI ANALYTICS

Axeleratum

2021 – 2022

- Developed data science models to identify areas for improvement.
- Created indicators for monitoring and enhancing athlete development.
- Initiated data-driven projects to optimize training and game processes.

## MICAI CONFERENCE: AI RESEARCH PRESENTATION

Mexican International Conference on Artificial Intelligence

OCTOBER 2021

- *Sentiment Analysis on Twitter about COVID-19 Vaccination in Mexico*
- Developed Machine Learning models for sentiment analysis.
- Authored and presented the research paper at the conference.

## CERTIFICATES, MORE PROJECTS, COMPETITION AND ACTIVITIES IN:

<https://andnog.github.io/andrei.github.io/certificates>

<https://andnog.github.io/andrei.github.io/projects/>

<https://andnog.github.io/andrei.github.io/experience/#freelance>

# EXPERTISE

Programming Languages

- Python
- C#
- PHP
- HTML
- CSS
- JavaScript
- SQL
- Java
- C/C++
- TypeScript

# TOOLS

Software & Frameworks

- Jupyter Notebooks & Environments
- LLMs (ChatGPT, Claude & Gemini)
- Prompt Engineering, Fine-tuning & RAG
- Pyspark, Pandas, Numpy
- Laravel, Statamic, Angular, Django
- Flask
- Git, GitHub, Bitbucket & Az DevOps
- Docker
- .Net & .Core
- VS Code & Copilot
- Postman
- SQL Server & MySql Workbench
- GCP, AWS, Azure, Digital Ocean

# LANGUAGES

- Spanish (NATIVE)
- English (ADVANCE)

# INTERESTS

- ML, AI & Gen AI
- Technologies & Innovation
- Cloud Computing & Architectures