ANDREI NOGUERA
MACHINE LEARNING, AI & GENAI

📍 CDMX, México

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

PROFESIONAL EXPERIENCE

Company: RIMEXA

ROLE: CONSULTANT
SEP 2025 - PRESENT
- Delivering custom AI solutions to software development cycles.
- Scaling digital architectures for high availability production services.
- Designing GCP cloud functions for LLM based image analysis.
- Leading technical team to build platforms using Cursor.

Company: TIENDA PAGO

ROLE: DATA SCIENTIST & ML ENGINEER
DIC 2021 - AUG 2025
- Build and implement ML models to solve complex problems
- Analyze large datasets and extract insights
- Deploy and monitor ML models in production
- Apply GEN AI: LLMs, RAG & Calling Functions

ROLE: SOFTWARE ENGINEER
AUG 2019 - DIC 2021
- Develop and implement software applications and systems.
- Write clean, maintainable, and scalable code.
- Integrate APIs and third-party services.
- Participate in code reviews and ensure best practices.

Company: UNIVERSIDAD PANAMERICANA

ROLE: SOFTWARE DEVELOPER INTERN
JAN 2018 - JUL 2019
- Assist in creating software solutions for internal services.
- Participate in OS administration tasks and database management.

EDUCATION

PHD: ARTIFICIAL INTELLIGENCE
Universidad Panamericana
2023 – 2027 (Present)

MASTER: DATA SCIENCE
Universidad Panamericana
2021 – 2022

ENGINEERING: INFORMATION TECHNOLOGIES
Universidad Panamericana
2015 – 2019

PROJECTS

IEEE CISOSE (ISADS): AI RESEARCH PRESENTATION
International Symposium on Autonomous Decentralized Systems

JULY 2025 (Strong Accepted)

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

https://ieeexplore.ieee.org/document/11159312

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

TOOLS
Software & Frameworks

- LLMs (ChatGPT, Claude & Gemini)
- AI IDE: Cursor & VS Code ChatGPT Code
- Prompt Engineering, Fine-tuning & RAG
- Jupyter Notebooks & Environments
- 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