

## PERSONAL PROFILE

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Data Scientist with hands-on experience in data-driven roles, leveraging programming and machine learning to automate processes and extract insights. Eager to create real-world impact through innovative AI solutions and automation.

## EDUCATION

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- **Tecnológico de Monterrey** Monterrey, NL  
*B.S. in Data Science and Mathematics Engineering* August 2021 - July 2025
  - **Events and Competitions:** HackMTY (2021), Datathon (2023), [Engineering Expo \(2023\)](#), [National School of Optimization and Numerical Analysis \(2023\)](#), [Cemex Hacks \(2024\)](#).

## EXPERIENCE

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- **Ikusi** Monterrey, NL  
*Data Engineer Intern* September 2024 - July 2025
  - **Data Lake:** Designed and implemented a Dockerized data lake architecture using Elasticsearch, developing Python-based data pipelines with Airflow for efficient data ingestion from several sources.
  - **Approval Automation:** Streamlined interdepartmental approvals by designing and implementing an automated workflow for business opportunity approvals using Power Automate.
- **Cemex** Monterrey, NL  
*IT Energy Analyst Intern* September 2023 - September 2024
  - **Price Forecast:** Contributed to developing a multivariate model using LSTM to predict energy prices, enabling optimal consumption strategies and identifying cost-effective hours for plants all over Mexico.
  - **Automations:** Streamlined automation across multiple areas using Python and Power Automate, reducing manual labor by up to 28%. Automated data extraction from diverse web sources using the requests library, collecting data on temperature, market behavior, and raw material prices to support analysis and develop accurate price prediction models.
  - **Full-Stack Development:** Accelerated the full-stack development of the Operations and Energy web platform, implementing user roles, permissions, and energy consumption authorization for plants. Contributing to a unified platform to manage and monitor energy consumption, reducing time allocation by 22% and creating a seamless transition into the energy market.
- **Pogen** Monterrey, NL  
*Data Analytics Intern* March 2023 - September 2023
  - **Affluence Index:** Redesigned and implemented the index used to quantify growth in mall foot traffic, resulting in more accurate reports and insights for clients.
  - **Anomalies Detection:** Consolidated multiple processes using Isolation Forest and Z-Score metrics to create a data quality validation process, enabling error detection and information loss in mall sensors across Mexico.

## PROJECTS

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- **End-to-End ML Deployment on AWS:** Deployed a complete ML workflow using MLflow on AWS (EC2, S3), built data pipelines on Kedro with Docker, and served models through FastAPI for scalable real-time inference.

## SKILLS

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- **Programming Languages:** Python, SQL, R.
- **Libraries:** TensorFlow, Scikit-Learn, Pandas, Airflow, Streamlit, LangChain, MLFlow, Boto3, FastAPI.
- **Tech Stack:** Linux, Docker, PowerBI, Git, AWS, AutomationAnywhere, PowerAutomate, Snowflake.
- **Languages:** Spanish (Native), English ([C1 - Advanced Proficiency](#)).