



**Cesar ANASCO**  
Portfolio, LinkedIn, Kaggle

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|Master in Machine Learning and Data Mining |  
|Computer Systems Engineer |Technical Consultant |  
Seeking new challenges to contribute to innovative, data-driven projects.

## EXPERIENCE

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- **Herzum North America** Remote  
*Technical Consultant* Feb 2022 – Present
  - **Pipelines:** Developed a data retrieval and processing pipeline to fine-tune generative AI models using information sourced from Atlassian cloud services for project management, particularly Jira and Confluence, to customize model outputs. Generated the cleaning, augmentation, and prompt generation scripts for data management. The architecture accelerated internal model customization and established a path for future larger implementations.
  - **Application Development :** Planned and constructed a time tracking app for timesheet generation within Monday.com. Established the architecture for data residency. Developed the interfaces using React and structured the documentation and reporting generation. The app is used worldwide with 500+ downloads in the marketplace.
  - **Data Migration:** Worked as a support for data migration between on-premises applications and the cloud. Reproduced, migrated, and tracked over 1,000 JQL query equivalences and workflows between instances.
- **Halliburton** Ecuador  
*Landmark Software and Services Intern* Jun 2021 – Dec 2021
  - **Application Development:** Improved an application for managing stored procedures in databases to generate a consistent data structure. Performed data migration and data transformation processes. Applied regression techniques to analyze and predict oil well production trends, optimizing production data analysis for management.
- **Produbanco** Ecuador  
*Information Security Intern* Oct 2019 and Feb 2020
  - **Permits Management Manual:** Created protocols for internal and external applications utilized in the company, which was adopted across the company departments to educate employees about information security practices.
  - **Fraud Detection:** Collected, organized, and analyzed application access logs to identify fraudulent entries.

## PROJECTS

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- **Cryo-electron Tomography Object Identification:** (Kaggle Competition) Implemented 3D U-Net and YOLOv11 models for multi-class 3D segmentation and 2D object detection of protein from cryo-electron tomographies. Used synthetic data to fine-tune models using Tversky Loss and F-beta metric ( $\beta = 4$ ). YOLOv11 achieved a 0.625 score.
- **Product Re-purchase Prediction:** (Kaggle Competition) Designed a personalized recommendation system to predict repeat purchases using customer transaction data. Performed feature engineering on purchase patterns, and improved prediction accuracy using FNN and CASER models with negative sampling strategies. Achieved a Hit@10 score of 0.356.

## EDUCATION

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- **Jean Monnet University** Saint-Étienne, France  
*Master in Machine Learning and Data Mining* Oct 2022 – Jul 2025
- **National Polytechnic School** Ecuador  
*Bachelor of Engineering in IT Systems and Computer Science* Oct 2015 – Mar 2021

## SKILLS

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- **Programming Languages:** Python, R, SQL, Javascript, GraphQL.
- **Programming Frameworks:** TensorFlow, Keras, PyTorch, Pandas, Numpy, Scikit-learn.
- **Technologies:** Deep Learning, Computer Vision, Git, Atlassian Products, DevOps, Airflow, Google Cloud Platform.
- **Languages:** English - C1, Spanish - Native, French - A2.