

# Alex Turpo Coila

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GitHub: <https://github.com/iBrokeTheCode>

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## Machine Learning Engineer

Machine Learning Practitioner, with a Bachelor's in Systems Engineering and 8+ years of experience in telecommunications, IT, and applied AI projects for e-commerce. Demonstrated achievements in developing and deploying CNN-based image classification models, optimizing supervised learning models for risk analysis (ROC AUC > 0.72), and automating network operations, through core strengths in Python, AWS, Docker, and Git. Fluent in Spanish and professionally proficient in English. Currently seeking opportunities to apply data-driven solutions in Machine Learning, MLOps, or AI engineering roles.

## Work Experience

### Machine Learning Practitioner at Anyone AI (Part-Time)

Jun 2025 - Oct 2025

- Developed and deployed an image classification model using CNNs to predict vehicle make and model from unstructured images, achieving 82% accuracy. Streamlined deployment as an API-based web service using Docker on AWS, ensuring scalability and accessibility.
- Built and optimized supervised learning models (DecisionTree, XGBoost, LightGBM) for a home credit risk analysis project, processing 350,000+ transactions and achieving ROC AUC > 0.72 to enhance loan applicant assessment.
- Engineered a sentiment analysis pipeline for a movie streaming platform by preprocessing and vectorizing user reviews using BoW, TF-IDF, and word embeddings, leading to the successful classification of positive and negative sentiments.
- Constructed an end-to-end data pipeline (ELT) for revenue and delivery analysis on a major Latam e-commerce site, analyzing trends and delivery metrics across states and product categories using SQLite, SQL, and Seaborn, driving actionable business insights.

Main Technologies: Python, Scikit-learn, Airflow, Docker, AWS, PostgreSQL, FastAPI, Streamlit, Git, MLflow

### Network Technician at Redes Ópticas

Jul 2022 - Dec 2024

- Developed Python-based automation tools to streamline network configurations, reducing manual workload by 40%.
- Collaborated with technical teams to diagnose and resolve critical incidents, ensuring system stability.

Main Technologies: Python, Streamlit, Linux, Git, SQLite, Playwright, PyQt, Network Management Tools

### Network Administrator at GREA

Jul 2017 - Jun 2018

- Implemented a virtualization solution using Proxmox VE, migrating legacy servers to virtual machines, which enhanced system management and reduced hardware dependencies.
- Managed and maintained LAN infrastructure, ensuring consistent uptime and efficient network performance.

Main Technologies: Linux, Proxmox VE, Windows Server

### Computer Technician at Cesmatronic EIRL

Feb 2017 - Jun 2017

- Installed operating systems and essential software applications, ensuring full functionality.
- Configured and prepared workstations for end-users.

Main Technologies: Windows, Linux

## Projects

### Machine Learning Pipeline

Jun 2025 - Oct 2025

Developed and deployed a CNN-based image classification model designed to predict vehicle make and model from unstructured images, achieving 82% accuracy. This solution was then streamlined for production as a scalable API-based web service using Docker on AWS.

Technologies: Python, TensorFlow/Keras, CNNs, Docker, AWS, FastAPI, Git

## Skills

Tech Skills: Python (Airflow, FastAPI, Keras, Matplotlib, Pandas, Scikit-learn, Streamlit, TensorFlow), SQL (PostgreSQL, SQLite), AWS, GCP, Docker, Git, Jupyter, MLflow

Agile Methodologies: Scrum, Kanban

Other Tools: Postman, VSCode, Marimo, Linux, Windows Server, Proxmox VE, Playwright, Code Agents, MCP

Languages: Spanish (native), English (intermediate fluent proficiency)

## Education

### Anyone AI

2025 - Present

Machine Learning Specialization

### National University of San Agustin

2019 - 2024

Bachelor's in Systems Engineering

### SENATI

2016 - 2018

Computer Networks and Data Communications

## Courses

### AWS Cloud Practitioner Essentials - AWS Training & Certification

Aug 2025

### Intermediate Machine Learning - Kaggle

Jul 2025

### Data Cleaning - Kaggle

Jun 2025

### Data Visualization - Kaggle

Jun 2025

## Certifications

### Astronomer Certification for Apache Airflow 3 Fundamentals - Astronomer

Jun 2025

### SQL (Basic) - HackerRank

Jun 2025

### Fundamentals of MCP - Hugging Face

Jun 2025

### Test of English as a Foreign Language - Centro de Idiomas UNSA

Sep 2024