

NIURKA VANESA YUPANQUI VALENTE

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SUMMARY

Software Engineering student focused on MLOps: training, packaging, and deploying machine learning models as production-ready services using FastAPI, Docker, CI/CD, and Azure.

EDUCATION

Escuela Politécnica Nacional

Quito, Ecuador

B.S. in Software Engineering

Expected Graduation: May 2028

- **Relevant Coursework:** Data Structures and Algorithms, Databases, Object-Oriented Programming, Software Engineering

PROJECTS

Student Dropout Prediction | *Keras, FastAPI, Docker, pytest, GitHub Actions*

2026

- Built a Keras neural network reaching 0.94 AUC-ROC after detecting and fixing data leakage by removing 6 second-semester features (28 final features)
- Served the model through a FastAPI REST API, containerized with Docker and validated by a 10-test pytest suite in a GitHub Actions CI/CD pipeline
- Secured the API with API key authentication, Pydantic input validation, rate limiting (slowapi), and secure logging

Portfolio Website | *Next.js, TypeScript, Gemini API, Vercel*

2026

- Built a bilingual portfolio with an AI assistant (Gemini API, streaming), a rate-limited contact API (Resend), and continuous deployment on Vercel

AeroMaravillas – Airline Website | *HTML, CSS, JavaScript, Git*

2025

- Collaborated in a 3-person team using a branch-per-module Git workflow, structured code reviews, and modular integration

RESEARCH & LEADERSHIP

GCI World 2026 – AI & Data Science Program

Apr. 2026 – May 2026

The University of Tokyo, Matsuo-Iwasawa Lab

Remote

- Selected for a competitive international AI program led by the University of Tokyo
- Built a customer churn prediction model with LightGBM on real-world telecom data, including feature engineering and AUC-ROC evaluation
- Deployed the model as a REST API with FastAPI on Azure App Service, taking it from notebook to consumable service
- Applied SQL for data pipelines and competed in an in-class ML classification challenge

Digital Ambassador

May 2026 – Present

Latinas in Tech – LiT Summit 2026

Remote

- Coordinate technical content and community communications for an international virtual tech event attended by professionals across Latin America

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, TypeScript, C

Machine Learning: Scikit-learn, LightGBM, Keras/TensorFlow, NumPy, Pandas, Jupyter

MLOps & Cloud: FastAPI, Docker, GitHub Actions (CI/CD), pytest, Azure App Service, Vercel

Tools: Git, GitHub, Linux (Ubuntu)

Spoken Languages: Spanish (Native), English (B1)

CERTIFICATIONS

AI Skills Fest 2026 (Azure AI Foundry + GitHub Copilot) – Microsoft

Jun. 2026

AI Infrastructure and Operations Fundamentals – NVIDIA

May 2026

AWS Cloud Practitioner Essentials – Amazon Web Services

May 2026

Code in Place – Stanford University

May 2026

Elements of AI – University of Helsinki

Apr. 2026