JUAN C. HUILLCAS

ELECTRICAL ENGINEER | AI ENTHUSIAST

CONTACT

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PROFILE SUMMARY

Professional in Electrical Engineering, currently pursuing a specialization in Computer Science. Passionate about emerging technologies, I have undertaken personal projects in machine learning, deep learning, computer vision, and other areas of artificial intelligence using advanced tools.

EDUCATION

UNIVERSIDAD NACIONAL DE INGENIERIA
2023 - Present
Computer Science

UNIVERSIDAD NACIONAL DEL CENTRO DEL PERU
2011 - 2015
Electrical Engineering
CIP 277252

LANGUAGES

English: Intermediate
Spanish: Fluent

TECHNICAL SKILLS

- Programming & Databases: Python, SQL, Git, Linux
- Machine Learning & AI: PyTorch, TensorFlow, Keras, Scikit-Learn, OpenCV
- Deep Learning: CNNs, RNNs, LSTM, GRU, GANs, Transfer Learning, Mask R-CNN, U-Net, DCGAN
- Computer Vision: OpenCV, Image Processing, Object Detection, Segmentation, Augmented Reality
- Cloud & MLOps: AWS (EC2, S3, Lambda, SageMaker), Google Cloud (Vertex AI, BigQuery), Azure AI, Docker, Airflow, MLflow
- Data Engineering & Pipelines: Apache Airflow, Dask, Spark
- Data Visualization: Matplotlib, Seaborn, Power BI, Tableau

COURSES & CERTIFICATIONS

Deep Learning for Images with PyTorch - DataCamp

FEB 2025

Learned image classification, object detection, segmentation (semantic, instance, panoptic), and image generation with GANs. Worked with CNNs, transfer learning, bounding boxes, Mask R-CNN, U-Net, and DCGANs to analyze and generate images using PyTorch.

Intermediate Deep Learning with PyTorch - DataCamp

FEB 2025

Learned to build robust deep learning models, including CNNs for images and RNNs (LSTM, GRU) for sequences. Explored training techniques, data augmentation, multi-input/output architectures, and optimizing model performance with PyTorch.

Introduction to Deep Learning with PyTorch - DataCamp

FEB 2025

Learned tensor manipulation, building and training neural networks, activation functions, optimization, and model evaluation. Explored techniques to improve performance, prevent overfitting, and fine-tune hyperparameters for classification and regression.

AWS Academy Cloud Foundations - AWS Academy

NOV 2024

Comprehensive course on AWS Cloud fundamentals, covering computing, storage, networking, security, and pricing; focuses on real-world applications and best practices for cloud deployment.

GitHub Copilot Course - Codigo Facilito

NOV 2024

Complete course on GitHub Copilot, exploring AI-powered development, setup, configuration, code generation, error detection, documentation, testing, CLI, Copilot Chat, and ethical implications with hands-on applications.

Mastering OpenCV with Python - OpenCV University

OCT 2024

Comprehensive course on OpenCV covering image processing, video analysis, deep learning, object detection, tracking, augmented reality, and cloud deployment. Includes hands-on projects with Python for real-world applications.

Python for Beginners - OpenCV University

OCT 2024

Introduction to Python fundamentals, control flow, file handling, data structures, and object-oriented programming. Covers modules, exceptions, and core libraries like NumPy and Matplotlib.

OpenCV Bootcamp - OpenCV University

SET 2024

Image processing, object detection, video manipulation, and feature extraction using OpenCV. Covers filtering, annotation, face detection, camera access, and deep learning applications with Python.

Cluod Computing AWS, AZURE, GOOGLE CLOUD - CTIC UNI

MAR 2024

Cloud fundamentals, architecture, networking, storage, security, cost management, and hands-on labs, covering IaaS, PaaS, SaaS, virtualization, identity management, and scalability.

Machine learning Engineer - Datapath

MAR 2024

Learned data analytics, Linux, SQL databases, Git, and Python for data analysis. Covered machine learning, API deployment, Airflow pipelines, Vertex AI, and MLOps architecture. Gained hands-on experience in computer vision, speech recognition, and end-to-end ML projects.

Data Analysis with Python - Datapath

DEC 2023

Mastered pandas for data manipulation, merging, and EDA (histograms, boxplots, correlations). Applied filters, transformations, grouping, pivoting, and explored Big Data optimization with Dask and chunk processing.