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Main skills
Data Science
Machine Learning
Deep learning
Learning AWS

Education
Platzi
-School of Data Science and Artificial Intelligence
-School of Artificial Intelligence and Machine Learning
-School of AWS (currently)

University of Valle (CO)
Topographic Engineering, remote sensing - GIS

Certifications
Apache Airflow Course
Backend Development Course
Machine Learning: Model Optimization
AWS Partner: Accreditation (Technical)
Professional Course on Machine Learning with Scikit-Learn
Convolutional Neural Networks
Professional Course with Python using Keras and TensorFlow
Natural Language Processing Fundamentals Course with Python and NLTK
Docker Fundamentals Course
FastAPI: Fundamentals, Path Operations and Validations Course
Introduction to Machine Learning Model Deployment Course
Spark to Big Data Fundamentals Course
Introduction to AWS: Cloud Computing Fundamentals Course
Introduction to AWS: Compute, Storage and Databases Course
Storage on AWS Hands-on Course

Frank Montenegro Hurtado
Data science | Python | AWS | R | Machine learning | Deep Learning | Scikit-learn| TensorFlow | Docker | SQL | Git | Remote sensing | GIS

About me
Geomatics engineer🌍 by profession and **data scientist**👨‍💻🖥️ by choice with 5 years of experience involved and passionate about the whole software development lifecycle using frameworks like Sklearn, TensorFlow and Pytorch in Python🐍 and SQL 👨‍💼🗄️. In my current role I am **implementing pipeline development** for training Machine Learning and Deep Learning models 🐛🐞 and use **AWS** to **deploy the models** in the **cloud** 🖥️☁️ created **on-demand consumer APIs**. Also, I love to share what I have learned, that's why I often volunteer to mentor new members 🔝

Experience
RAPPI – Sr. Data Scientist - Agu. 2022 – Jan 2023
Responsibilities:
- Creation of retraining pipelines with data and model versioning, improving the retraining process by **80%**.
- In-depth analysis of churn vs. debt to detect unpaid debt.
- Creation of a **spatial analysis** of churn vs. unpaid debt, detecting critical areas and generating a **20%** recovery of unpaid debt.
- Creation of a dashboard to **compare the impact between 2 different models** in production

Technology stack: Python, Sklearn, TensorFlow pandas, Snowflake, SQL

MASIV - Semi-senior Data Scientist - Feb. 2022 – Agu. 2022
Responsibilities:
- ETL generation for model input.
- Improved performance of **anomaly score** prediction model by UserAgent and location by **75% and 120%** respectively.
- Creation of **MLOps** system for retraining, monitoring, and versioning for model maintenance over time on **AWS**, increasing its **reproducibility by 100%.**
- Creation of **API for on-demand** ML model consumption, improving its response by 45%.

Technology stack: Python, Sklearn, pyspark Docker, ECR, Glue, Batch, DynamoDB, S3, Lambda on AWS

CLARO - Data Scientist - Dec. 2021 – Feb. 2022
Responsibilities:
- **Analyze spatial information** for feature selection improving model **performance by 15%.**
- Create a **prioritization model** increased selection of optimal zones by 35%.
- **develop neural network** architecture to predict spatial-temporal market behavior

Technology stack: Python, Sklearn, TensorFlow, geopandas, Numpy, SciPy

CIAT - Data Scientist - Oct. 2018 – Oct. 2021
Responsibilities:
- Created a **banana classification model** in mixed fields using drone and satellite images with an **accuracy of 93% and 85%** respectively.
- Analyzed the **time series** to determine points of crop changes due to the implementation of irrigation systems, with an **accuracy of 80%**

Technology stack: Python, Sklearn, TensorFlow, geopandas, Numpy, SciPy, Docker