Jorge Alvarez

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DATA ANALYST, DATA SCIENTIST
AND ENVIRONMENTAL
ENGINEERING

Details

Lima - Peru
jorgealvarezore@outlook.com.pe

NATIONALITY
Peruvian and French

Links

X (Twitter)

LinkedIn

GitHub

Personal website

Skills

Python, Jupyter Notebook and
Visual Studio Code

Numpy, Pandas, Matplotlib,
Seaborn, SQL and TensorFlow

Web scraping

Power Bi

ArcGIS and AutoCAD

C# and WPF

Hobbies

Play videogames and Listen to
music

Languages

Spanish (Native)

English (Intermediate B1 TOEFL)

French (Basic)

Profile

I'm a passionate enthusiastic of the world of Data Science, Machine Learning and Artificial Intelligence. I am a very studious and hard-working person who advances harmoniously in a group and learns new concepts in a self-taught way.

My main skills are Python, NumPy, Pandas, Matplotlib, Seaborn, SQL, Power BI and TensorFlow with some knowledge of front-end development with HTML, CSS and JavaScript, and desktop development with .NET C# and WPF.

My academic background is Environmental Engineering, and Mining and Environmental Management specifically in geomatics modeling with the software ArcGIS, ArcPy, QGIS, AutoCAD and AutoCAD Civil 3D.

Employment History

Independent GIS and CAD specialist
JANUARY 2022 — PRESENT
- Design of maps with ArcGIS, AutoCAD and AutoCAD Civil 3D softwares
- Develop GIS tools (ArcPy) and applications (C#/WPF) to speed up process
- Field supervisor of environmental monitoring

GIS specialist at JCI, Lima - Peru
JANUARY 2018 — DECEMBER 2021
- Design of maps with ArcGIS, AutoCAD and AutoCAD Civil 3D softwares
- Review of environmental reports

Education

Graduated in Bootcamp Data science, Henry
MAYO 2024

Course Data Analyst Path, DQ Solution (Microsoft Partner Network)
NOVEMBER 2023

Graduated in Data scientist, Platzi
APRIL 2023

Graduated in Data analyst, Platzi
APRIL 2022

Graduated in Master degree in Mining and Environmental Management, UNMSN, Lima - Peru
2018 — 2019

Collage degree in Environmental Engineering, UNFV, Lima - Peru
2007 — 2017

Technician degree in Surveyor, SENCICO, Lima - Peru
2008 — 2010

Projects

Financial Data Extraction Tool (OpenAI API)

Project hosted on Github

Simple tool to extract financial data from a text given using the OpenAI API (OpenAI ChatCompletion). App written in Python (code behind) and Streamlit (front-end).

Question-and-answer system in a custom database (OpenAI API + SQL)

Project hosted on Github

Building a question-and-answer system that respond as ChatGPT but fetch a reply from an internal organization database using the OpenAI API (OpenAI

Function Calling). App written in Python (back-end) and Streamlit (front-end).

Pizza sales report (SQL and Power BI)

Project hosted on Github

SQL queries and Power BI dashboard to analyze the Key Performance Indicators (KPI) and show some charts to gain insights of the business performance and understand key trends. Software used: Power BI and MySQL Workbench.

Phytogeographic image recognizer (Tensorflow)

Project hosted on Github

Convolutional Neural Network model to classify images of common botanic species in Rio Blanco - Lima - Peru. Trained from own images dataset. The model uses the Keras API, Tensorflow platform, and Nunpy and Matplotlib libraries.

Machine Learning Operations (MLOps)

Project hosted on Github (in Spanish)

Resolution of the first individual project of Henry's BootCamp of Data Science.

This work comprehensively explores the role of an MLOps Data Engineer, covering the key phases of data engineering, exploratory data analysis and processing, and model creation using machine learning methods.

The ETL, EDA, Machine Learning Model and API Deployment tasks were carried out on a database from the Steam video game platform.

Data analysis of road accidents in the city of Buenos Aires - Argentina (Data Analyst)

Project hosted on Github (in Spanish)

Resolution of the second individual project of Henry's BootCamp of Data Science.

The main objective of this project is to analyze the information related to deaths in traffic accidents in Buenos Aires - Argentina during the period 2016-2021. The purpose is to produce relevant data and conclusions that help authorities establish strategies that efficiently reduce the number of deaths and injuries in incidents.

The ETL, EDA and KPI were developed on the open data of the Government of CABA.

Reviews and recommendations in Yelp and Google Maps databases

Project hosted on Github (In Spanish)

Comprehensive analysis of the US market within the restaurant and related sectors. Main focus on developing a restaurant recommendation system, using data from platforms such as Yelp and Google Maps. This system provides valuable information to investors, helping them make strategic decisions.

Work carried out in a group where all the typical Data analyst and Data scientist tasks were carried out such as ETL, EDA, Machine Learning Model, cloud survey, dashboard design, etc.

Six mini applications in C# (Port from Python to C#)

Project hosted on Github

Practicing my self-taught studies of C# by porting the 6 basic Python projects presented on the YouTube channel 'freeCodeCamp Español' from Python to .NET C#.