Jorge Alvarez

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DATA ANALYST, DATA SCIENTIST AND ENVIRONMENTAL ENGINEERING

Details

Lima – Peru
(+51) 991801525
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Nationality

Peruvian and French

Links

X (Twitter)

LinkedIn

GitHub

Personal website

Technology stack

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 (Advance C1 EF SET)

French (Basic)

Profile

My academic background is in environmental engineering with a master's degree in mining and environmental management with working experience in geomatics modeling in the software ArcGIS, ArcPy, QGIS, AutoCAD and AutoCAD Civil 3D.

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

I'm a passionate enthusiastic of the world of Data Science, Machine Learning and Artificial Intelligence.

Employment History

Independent GIS and CAD specialist

JANUARY 2022 — PRESENT

- Design of maps with ArcGIS, AutoCAD and AutoCAD Civil 3D software
- 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 software
- 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's 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 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

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 (CNN) to classify images of botanic species in Rio Blanco - Lima - Peru. 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.

The ETL, EDA, Machine Learning Model and API Deployment tasks were carried out on a database from the Steam video game platform. This work comprehensively explores the role of an MLOps

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 ETL, EDA and KPI task were developed on the open data of the Government of CABA. Mainly to analyze information of deaths in traffic accidents in Buenos Aires - Argentina during the years 2016-2021 to produce relevant data and conclusions to the authorities.

Reviews and recommendations in Yelp and Google Maps databases

Project hosted on GitHub (In Spanish)

Resolution of the group project of Henry's BootCamp of Data Science.

Comprehensive analysis of the US market in the restaurant and related sectors through ETL, EDA, Machine Learning Model, cloud survey, dashboard design, etc.Main using data from platforms such as Yelp and Google Maps.

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

Project hosted on GitHub

Port of 6 basic projects from Python to .NET C#.