Jose C. Valenzuela Nieto

JUNIOR BIG DATA DEVELOPER
Data scientist - data engineer - analyst

(+49) 015204627464
valenzuelanietojosecarlos@gmail.com
https://www.linkedin.com/in/vanitcode/
https://github.com/Vanitcode?tab=repositories
Unterhaching, 82008, Germany

Work history

Algorithmics Spain

Educational technical director
2018 - 2021
I was responsible for training new teachers, providing accessibility to new franchises in Spain and developing new lessons.
For the development of my daily tasks I used Python, SQL and Git.

Xplorers360. Advance Innovacion Educativa

Coordinator
2016 - 2018
Company dedicated to robotics and educational technology nationwide. I was responsible for the innovation and company formation project. National and international trips: Global Robot Expo (IFEMA MADRID), Bett (London).

Education Background

Microsoft Certified: Azure Data Scientist Associate

2023
Experienced in applying data science and machine learning to deploy and run machine learning workloads on Azure: https://www.credly.com/badges/2dc4041e-0a24-4400-af60-565337e7a87c/public_url

KeepCoding Tech School

Bootcamp - Fullstack Artificial Intelligence, Big Data and Machine Learning
2021 - 2022 (648h)

University of Córdoba, Spain

Official master's degree in Teaching in Secondary Schools
2015 - 2016

Degree en Physics
2010 - 2015
Undergraduated Thesis in the study of pulse propagation in photonic crystal fibers (PCF) by applying the SPLIT-STEP method with a grade of outstanding.

Expertise & Skill

- Lenguages:
  - python (Python)
  - Scala (Scala/Java)
  - (R)
- Libraries and frameworks for IA and Deep Learning:
  - NumPy (Numpy)
  - (Scikit-Learn)
  - TensorFlow (TensorFlow)
- Databases and visualization:
  - (PostgreSQL)
  - tableau (Tableau)
  - (Matplotlib)
- Others:
  - (Git/Github for versions)
  - (Htlm, CSS and Flask)
  - (Azure Data Scientist Associate)

Jose C. Valenzuela Nieto

JUNIOR BIG DATA DEVELOPER
Data scientist - data engineer - analyst

Projects resume

NLP. Sentiment analysis

https://github.com/Vanitcode/NLP-sentiment-analysis

Didactic project to understand the different technologies involved in Natural Language Processing (NLP). A sentiment analysis has been carried out for a dataset of video game reviews on Amazon.

Yolov5 object detection model in flask

https://github.com/Vanitcode/yoloV5FlaskApp

This project is a fork of @robmarkcole. I have used this previous work to add some functionalities with flask. The objective is that I can learn how to use flask and review some concepts about deep learning. A video example:
https://www.youtube.com/watch?v=XXbUCqwr4Z8&ab_channel=VanitCode

Price prediction model using neural networks

https://github.com/Vanitcode/Predictive-model-neural-networks

I predice the price of AirBnb rooms using all the features available in the dataset. This leads to a problem with two inputs data (numeric and image) that I am going to solve using Deep Learning techniques.

Neural Network using just Numpy

https://github.com/Vanitcode/Neural_network_Numpy_only

Neural network that acts as logistic regression. The process is raw, that is, without using specialized libraries (Tensorflow, Keras). I will only use Numpy to be able to perform the necessary calculations (specifically forward and back propagation). The neural network consists, specifically, in a Cat/Non-cat neural network.

Simulation of mobile antennas

https://www.youtube.com/watch?v=zx7ARAvMotE&t=204s (Spanish)

Lambda architecture for processing data collected from a simulation of mobile phone antennas. The architecture consists of three layers with their respective technologies:

- **Speed Layer**: Spark Streaming, Kafka, Google Compute Engine.
- **Batch Layer**: Spark SQL, Google Cloud Storage.
- **Serving Layer**: PostreSQL, Apache Superset.