Jose C. Valenzuela Nieto

Projects resume

JUNIOR BIG DATA DEVELOPER
Data scientist - data engineer - analyst

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.

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🏠 Unterhaching, 82008, Germany

🎓 Education Background

KeepCoding© Tech School

Bootcamp - Fullstack Artificial Intelligence, Big Data and Machine Learning
2021 - 2022
Data Science full stack developer. 648h. Bootcamp focused on preparing a professional profile with knowledge in:
#Cloud_Architecture #Python #Scala #Spark #SQL #Data_Visualization #R #Tensorflow #Keras #Deep_Learning #NLP

University of Córdoba, Spain

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

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

💼 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).

🖥️ Expertise & Skill

tableau • scikit learn • PostgreSQL • TensorFlow • Apache Spark • python • R • Google Cloud

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Capabilities

Continuous Learning
Adaptability
Resilience
Teamwork
Creative

🌐 Languages

Spanish: mother tongue

English: B2 Cambridge

German: A1