Isabel María Villalba Jiménez

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SKILLS

- Python R
- Scraping Unit Testing
- Bash scripting
- Docker Docker compose
- SQL MongoDB
- HTML CSS
- XPath
- Regular Expressions
- Matlab

PYTHON

- Scrapy
- Scikit-learn Pandas
- Numpy statsmodels
- Prophet
- Matplotlib Seaborn
- Scrapy BeautifulSoup
- PySpark
- Jupyter-Notebook
- Quantopian Backtrader
- Tensorflow

DATA SCIENCE

- Statistical analysis
- Time Series
- Deep learning

DATA ENGINEERING

- Lambda s3
- Kinesis Athena
- Glue Quicksight

OTHER

- Agile Scrum
- AWS
- Microsoft Azure
- Linux
- CI/CD Open Source
- GitHub GitLab
- Bitbucket

French

• LATEX• markdown

LANGUAGES

Spanish native

English full-proficiency

Cambridge Certificate in Advanced English -

CAE (C1) (2012)

intermediate

EXPERIENCE

Data Engineer - SEAT:CODE April 2021 - Present | Hybrid, full-time

- Predictive maintenance of welding spots using Machine Learning for the SEAT Factory in Martorell.
- Implemented an ETL on AWS using Lambda, Kinesis Firehose, Glue. Data visualization using Quicksight. TDD. CI/CD using Github Actions. Infrastructure provisoning using Cloudformation.

Data Science Engineer - Mática Partners December 2020 - April 2021 | Remote, full-time

- Information retrieval, Scrapers, Docker, Docker-compose, PySpark, Azure, Jenkins, AWS.
- Built an ETL to extract business information using Docker and store it in AWS s3.

Python developer & Backend Developer - Scrapinghub April 2019 - December 2020 | Remote, full-time

• Information Retrieval, Scrapers, ETL development. Scrapy, Pandas, Numpy, unit testing, Pytest, Docker, Docker-compose, Celery, MongoDB, MySQL, CI/CD, cloud deployment, HTML, CSS selectors, XPath, XHR. Agile, Scrum. Code-review.

Data Science contractor June 2017 - April 2019 | Remote

- LISTedTECH January 2019 April 2019 | Remote
 - Development of a tool for retrieving information about universities. Data cleaning for database update. Scrapy. Regular expressions.
- Windsor Al November 2018 January 2019 | Remote
 - TV attritbutions and ROI report generation using R and PostgresSQL.
- Arbuckle Capital September 2017 January 2019 | Remote
 - Algorithmic trading system in (Quantopian, Backtrader (Python)). Prediction of bull-bear periods and cluster volatility periods. Used GARCH models to predict volatility. Portfolio selection.
- SerpicoDEV June 2017 September 2017 | Remote
 - Implemented a predictor in Python to determine prices changes in commodities from markets in the U.S.
- Mentor and Reviewer Udacity
 - Classroom Mentor April 2017 April 2019 | Remote, part-time
 - * Provided on-demand support to the Machine Learning Nanodegree (MLND) and the Data Analyst Nanodegree (DAND) students.
 - * 120 mentees with received average rating of 4.7
 - Project Reviewer April 2017 April 2019 | Remote, part-time
 - * Helped students of the **Deep Learning Nanodegree Foundation** and the **Artificial Intelligence Nanodegree** in projects related to Neural Networks, Reinforcement Learning and Statistical Analysis.
 - * 750+ projects reviewed with received average rating of 4.93

Predoctoral researcher October 2015 - October 2016 | Barcelona Optical Communications Group (GCO)

- Polytechnic University of Catalonia (UPC)
 - Developed Python and Matlab scripts for the simulation of optical devices
 - $\bullet \ \ Simulated \ wavelength \ shifter \ for \ optical \ networks \ units \ with \ 54dB \ side \ band \ rejection$
 - Designed new devices for highly efficient networks

EDUCATION

MSc in Photonics 2013-2014

Polytechnic University of Catalonia (UPC) Institute of Photonic Sciences (ICFO), UAB, UB

Telecommunication Engineering (BSc + MSc) 2005-2012

University of Malaga

COURSES

Data Analyst Nanodegree , November 2016 - June 2017

U Udacity **facebook**. ♥ mongoDB

Certificate: source

Machine Learning Engineer Nanodegree, July 2016 - November 2016

Udacity Google
Certificate: source

Machine Learning Course 2016 Stanford University,

Coursera

Certificate: source

CONTRIBUTIONS

- Open Source PRs
 - Scikit-Learn:
 - -Fixed error when fitting RidgeCV with integers
 - -Added store_cv_values to RidgeClassifierCV and a test
 - -export_graphviz should work with a sklearn.tree._tree.Tree.
 - Pandas:
 - -BUG: Groupby quantiles incorrect bins
 - -BUG: Add unordered option to pandas.cut
 - -BUG: pivot_table not returning correct type when margin=True and aggfunc='mean'
 - -DOC: update pandas.DataFrame.boxplot docstring pandas.DataFrame.boxplot
 - Scrapy:
 - -Itemloader errors
 - -Raise error when start_url found instead of start_urls
 - Shub:
 - -Hide apikey
 - -Insecure exception with credential should raise warning
- StackOverflow profile
 - Answered questions related to python, pandas, sklearn, matplotlib, numpy, ggplot
 - Reputation: Top 17% overall
 - Top tags: pandas, python, python-3.x, dataframe, python-2.7, pandas-groupby, matplotlib, random-forest, numpy, scikit-learn, seaborn, ggplot, r, violin-plot, machine-learning
 - Top rated answers:
 - -Groupby sum and count on multiple columns in python
 - -Cannot make seaborn violin plot horizontal [Python3.X]
 - -Adding value to only a single column in pandas dataframe
 - -Print the decision path of a specific sample in a random forest classifier
 - -Search optimization with pandas multi-index

PERSONAL PROJECTS - SOURCE

- Stocks Dashboard in Bokeh source May 2018
 - Display time series automatically using Bokeh (Python).
 - Easy plot arrangement and format through a dictionary of parameters.
- Right Whale call recognition using Convolutional Neural Networks source