LinkedIn: mabelvj Skype: mabelvj Website: mabelvj.github.io

Isabel María Villalba Jiménez

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Github: mabelvj StackOverflow: mabel-villalba Udacity: isabelmaravillalbajimnez

SKILLS

- Python R
- Regular Expressions
- Scrapping SQL
- Matlab

PYTHON

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

DATA SCIENCE

- Statistical analysis
- Time Series
- Deep learning

OTHER

- Amazon Web Services
 (AWS) EC2
- Quantopian
- Linux GitHub
- LATEX markdown

LANGUAGES

Spanish native

English full-proficiency

Cambridge Certificate in Advanced English -

CAE (C1) (2012)

French basic

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

Machine Learning Engineer Nanodegree , July 2016 - November 2016 Udacity Google

Machine learning Course 2016 Stanford University, © Coursera

Certificate: source

EXPERIENCE

Data Scientist & Python Developer (Independent Contractor) April 2017 - present

- LISTedTECH January 2019 present | Remote
 - Development of a tool for scrapping information about universities. Data cleaning for database update. Scrapy. Regular expressions.
- Windsor Al November 2018 present | Remote
 - TV attritbuttions and ROI report generation using R and PostgresSQL.
- Arbuckle Capital September 2017 present | Remote
 - Algorithmic trading system in (Quantopian, Backtrader (Python)). Prediction of bull-bear periods and cluster periods of volatility. Used GARCH models to predict volatility. Portfolio selection.
- SerpicoDEV June 2017 September 2017 | Remote
 - IImplemented a predictor system im Python to determine prices changes in commodities from markets of the U.S.
- Mentor and Reviewer Udacity
 - Classroom Mentor April 2017 present | Remote, part-time
 - * Provided on-demand support to the Machine Learning Nanodegree (MLND) and the Data Analyst Nanodegree (DAND) students.
 - * 120 people under mentoring with average rating of 4.7
 - Project Reviewer April 2017 present | 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 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 simulation of optical devices
 - Simulated wavelength shifter for optical networks units with 54dB side band rejection
 - Designed new devices for highly efficient networks

PROJECTS - SOURCE

• Contributions source

- Scikit-Learn

Fixed bugs and implemented new features.

- Pandas

Documented pandas.DataFrame.boxplot function.

- StackOverflow - profile

Answered questions related to python, pandas, sklearn, matplotlib, numpy, ggplot

- Stocks Dashboard in Bokeh source May 2018
 - Display time series automatically using Bokeh (Python).
 - Easy plots arrangment and format through dictionary of parameters.
- Right Whale call recognition using Convolutional Neural Networks *source*November 2016
 - Training of Convolutional Neural Networks (ConvNets) models widely used for character recognition (LeNet5) for audio recognition. Detected up-calls with 0.95 Area Under the Curve (AUC).
 - Tensorflow, scikit-learn, python, pandas, numpy, csv, matplotlib