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

R

• Seaborn • ggplot

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

FDUCATION

Data Analyst Nanodegree , November 2016 - June 2017

Udacity facebook. ♦ mongoDB

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

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

Machine learning Course 2016 Stanford University, ™ Coursera

Certificate: source

EXPERIENCE

Data Scientist & Python Developer September 2017 - present

- Data Analysis and Machine Learning projects. Also Software development of Python tools.
- Implemented an algorithmic trading system in Python and added Machine Learning techniques to distinguish bull-bear periods and cluster periods of volatility. Used GARCH models to predict volatility. Portfolio selection.
- Web scrapping, information processing and matching. Regular expressions. Reports generation

Machine Learning Engineer July 2017 - October 2017 | Remote SerpicoDEV

- Data Science and Python development: data wrangling and analysis, model selection and implementation.
- Implemented a predictor system im Python to determine prices changes in commodities from markets of the U.S.

Classroom Mentor April 2017 - present | Remote, part-time Udacity

- 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 January 2017 - present | Remote, part-time Udacity

- 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)

Bolytechnic 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