Isabel María Villalba Jiménez

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SKILLS

DATA SCIENCE

- Statistical analysis
- Supervised learning
- Unsupervised learning
- Reinforcement learning
- Deep learning
- Time Series
- t-test ANOVA
- chi-squared test
- A/B test

PROGRAMMING LANGUAGES

- Python R
- D3.js Matlab
- SQL C++

OTHER

- Scikit-learn Pandas Numpy
- Matplotlib Seaborn ggplot
- IPython Jupyter-Notebook
- Tensorflow
- Amazon Web Services (AWS) EC2
- Quantopian
- Linux Ubuntu GitHub
- LATEX markdown Rmarkdown

LANGUAGES

Spanish native

English full-proficiency

Cambridge Certificate in Advanced English -

CAE (C1) (2012)

French basic

FDUCATION

Data Analyst Nanodegree , November 2016 - June 2017

U 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 Science Consultant September 2017 - present

- Data Analysis and Machine Learning tasks via Upwork and other platforms. Also Software development of Python tools.
- Implemented a trading system in Python and added Machine Learning techniques to distinguish bull-bear periods and cluster periods of volatility.

Machine Learning Engineer July 2017 - October 2017 | Remote SerpicoDEV

- Data Science and Python development tasks: 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.
- 650+ 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

- Contributor to Scikit-Learn- source December 2017 present
 - Fixed bugs and implemented new features in the existing project of Scikit-Learn, a module for Machine Learning in Python.
 - For details see my GitHub Profile

- Test a Perceptual Phenomenon *source* December 2016
 - Performed statistical test to analyze the Stroop effect, a classic result of experimental psychology.
 - t-test, ggplot, R, rmarkdown
- 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