Isabel María **Villalba Jiménez**

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Udacity: **isabelmaravillalbajimnez**

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
- Tensorflow • Ipython-notebook
- Amazon Web Services (AWS) EC2
- Linux • Ubuntu • GitHub
- LaTeX • markdown • Rmarkdown

LANGUAGES

Spanish	native
English	full-proficiency Cambridge Certificate in Advanced English - CAE (C1) (2012)
French	basic

EDUCATION

DATA ANALYST NANODEGREE

Ⓤ **Udacity** facebook. ● mongoDB. , November 2016 - June 2017

MACHINE LEARNING ENGINEER NANODEGREE

Ⓤ **Udacity** Google , July 2016 - November 2016

MSC IN PHOTONICS

⊕ Polytechnic University of Catalonia (UPC) 2013-2014
Institute of Photonic Sciences (ICFO), UAB, UB

TELECOMMUNICATION ENGINEERING (BSC + MSC)

◉ University of Malaga 2005-2012

COURSES

MACHINE LEARNING COURSE

Andrew Ng
Ⓢ Stanford University ∞ Coursera 2016
Certificate: https://www.coursera.org/account/accomplishments/certificate/BDUV2MJT2P7T

PROJECTS - SOURCE

DATA ANALYST NANODEGREE

- **Health spending vs Life expectancy graph using D3.js-** *source* *June 2016*
  - D3.js, JavaScript, HTML, CSS, storytelling

- **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

MACHINE LEARNING NANODEGREE

- **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

EXPERIENCE

MACHINE LEARNING ENGINEER

SerpicoDEV July 2017 - present | Remote, part-time

- Independent contractor for data science and python development tasks: data analysis, data cleaning, model selection and implementation.
- Skills: Python, Time Series, ARIMA, Azure Machine Learning Studio

UDACITY CLASSROOM MENTOR

Ⓤ Udacity April 2017 - present | Remote, part-time

- Provided on-demand support to the **Machine Learning Nanodegree (MLND)** and the **Data Analyst Nanodegree (DAND)** students.
- 90 people under mentoring with **average rating of 4.6**

UDACITY PROJECT REVIEWER

Ⓤ Udacity January 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.
- 400+ projects reviewd with **average rating of 4.93**
- Python, numpy, pandas, scikit-learn, csv, matplotlib, jupyter-notebook

PREDOCTORAL RESEARCHER
Optical Communications Group (GCO)
⊕ Polytechnic University of Catalonia (UPC)   October 2015 - October 2016 | Barcelona

- 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