# IVÁN VALLÉS PÉREZ

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## PROFILE

Senior Data Scientist in McKinsey & Company and PhD student in Deep Reinforcement Learning at the University of Valencia. Proactive and with a clear vocation for the Artificial Intelligence (AI) field. In my current job, I developed 5 new application using state-of-the-art Deep Learning (DL) techniques.

## WORK EXPERIENCE

**Senior Data Scientist at McKinsey & Company,** Madrid — June 2016 - Present
- Develop and implement Machine Learning solutions for clients, focusing on their business needs.
- Developed 5 new applications for our clients using state-of-the-art Deep Learning techniques.
- Worked for more than 10 clients around the globe belonging to 5 different industries.
- Leading teams up to 10 data scientists + data engineers.

**Lead Data Scientist at Quarizmi AdTech,** Valencia — Nov. 2014 - June 2016
- Use Machine Learning and NLP techniques to generate and mantain digital marketing campaigns.

**Data Scientist at Psychology department of University of Valencia,** Valencia — May 2014 - Nov. 2014
- Analyzing data coming from clinical psychology studies using advanced Machine Learning techniques

**Machine Learning Researcher at Intelligent Data Analysis Laboratory (UV),** Valencia — June 2013 - Present
- Currently involved in several research lines related to Deep Learning and Deep Reinforcement Learning algorithms
- Conducted some applied research studies which involved medical data.

## ACADEMIC HISTORY

**Ph.D. in Deep Reinforcement Learning**, University of Valencia, Spain — 2018-Present
**M.Sc. Languages and Computer Science Systems (NLP)**, UNED, Spain — 2016-2018
**B.Eng. Electronics of Telecommunications**, University of Valencia, Spain — 2009-2013

## FURTHER EDUCATION

**Deep Reinforcement Learning Nanodegree**, Udacity — 2018
**Practical Reinforcement Learning**, National Research University Higher School of Economics, Coursera — 2018
**Deep Learning Specialization**, Andrew Ng, Coursera — 2018
**Neural Networks and Machine Learning**, Geoffrey Hinton, Coursera — 2017
**Neural Networks and Deep Learning**, ASDM: Universidad Politécnica de Madrid — 2016
... more than 30 MOOC and online courses from Coursera, EdX, Udacity and Stanford Lagunita

## PROJECTS AND ACHIEVEMENTS

**Generative Adversarial Networks for text generation,** M.Sc. thesis, Mark: 4/4 — June 2018
- Conducted an empirical study about generating free text using Generative Adversarial Networks.
- Found that the algorithm was able to generate free text by combining a seq2seq and convolutional architecture with GP-GANs.
- Link to the thesis: www.uv.es/ivape3/memoria_tfm.pdf

**Application of Genetic Algorithms to Extreme Learning Machine,** B.Eng. thesis, Mark: 3.7/4 — Sept. 2012
- Developed the Genetic ELM deep learning algorithm consisting of using Genetic Algorithms as an alternative method to backpropagation to train shallow neural networks.
- Link to the thesis: www.uv.es/ivape3/memoria_pfc.pdf

**Open Source Contributions to machine learning related projects**
- Contributed to large open source Python libraries in GitHub: *google tensorflow*, *scikit-learn*, *pandas*, *xgboost*, *sompy*, ...

**Participation in Kaggle competitions**
- Top 2 % in Santander Product Recommendation challenge (22nd/1787).
- Top 1 % in BNP Paribas Cardif Claims Management challenge (22nd/2947).
- Top 5 % in Springleaf Marketing Response challenge (76th/2225).

**Attendance at research conferences**
- NIPS 2016, NIPS 2017 and NeurIPS 2018 among others.

## JOURNAL PAPERS

**Visual Data Mining With Self-Organizing Maps for "Self-monitoring" Data Analysis**, *Sociological Methods & Research*, E. Oliver-Gasch, I. Vallés-Pérez, R.M. Baños-Rivera, A.J. Cebolla-Martí, C. Botella-Arbona, E. Soria-Olivas. 2014
**Self-Organizing Maps in the analysis of EMAs in a treatment for childhood obesity treatment**, *International Society for Research on Internet Intervention (ISRII)*, R.M. Baños, E. Oliver, A.J. Cebolla, I. Vallés, E. Soria, C. Botella. 2014

## SKILLS

**Programming languages**: Python (w/ Pytorch and Tensorflow), R, Matlab, C++
**Big Data:** Apache Spark, SQL, Redis, Amazon Web Services, Google Cloud
**Languages:** Native Spanish and Catalan. Advanced in English.

*Referees, references, recommendation letters and additional information will be provided upon request*