

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 field. Currently Living in Madrid (Spain).

WORK EXPERIENCE

- Senior Data Scientist at McKinsey & Company** June 2016 - Present
- My role consists of developing and implementing machine learning solutions for our clients, focusing on their business needs.
 - I developed 5 new applications for our clients using state-of-the-art Deep Learning techniques.
 - I worked for more than 10 clients around the globe belonging to 5 different industries.
 - I am leading teams up to 10 data scientists + data engineers.
- Lead Data Scientist at Quarizmi AdTech** Nov. 2014 - June 2016
- Using Machine Learning and NLP techniques to generate and maintain digital marketing campaigns.
- Data Scientist at Psychology department of University of Valencia** May 2014 - Nov. 2014
- Analyzing data coming from clinical psychology studies
- Machine Learning Researcher at Intelligent Data Analysis Laboratory (UV)** June 2013 - Present
- I am involved in several research lines related to Deep learning and Deep Reinforcement Learning algorithms
 - I conducted some studies which involved medical data.

PROJECTS

- Generative Adversarial Networks for text generation, M.Sc thesis** June 2018
- Empirical study about generating free text using Generative Adversarial Networks.
 - The algorithm was able to generate free text by combining a seq2seq and convolutional architecture with GP-GANs.
 - Link to the thesis: https://www.uv.es/ivape3/memoria_tfm.pdf
- Application of Genetic Algorithms to Extreme Learning Machine, B.Eng. thesis** Sept. 2012
- Development of 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: https://www.uv.es/ivape3/memoria_pfc.pdf
- Open Source Contributions to machine learning related projects**
- Contribution to large open source Python libraries: *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 to research conferences**
- NIPS 2016, NIPS 2017 and NeurIPS among others.

ACADEMIC HISTORY

- PhD. 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

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