

IVÁN VALLÉS PÉREZ

Sr Data Scientist at Amazon EU SC Science and part time PhD student in Deep Learning at University of Valencia. Proactive, with a clear interest in state-of-the-art research.

Looking for a Research Scientist position.

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WORK EXPERIENCE

04.2019 - Present | Senior Data Scientist at Amazon Supply Chain Science team | Luxembourg

- First team member, in charge of bringing the (deep) ML expertise to EU Supply Chain teams.
- Developed a ML solution to daily forecast the inbound demand at warehouse level for all EU.
- Currently developing a Deep Reinforcement Learning algorithm for improving speed through inventory proactive transfers.

06.2013 - Present | AI Researcher & PhD student at Intelligent Data Analysis Laboratory (UV) | Valencia, Spain

- Involved in several research lines related to Deep Learning and Deep Reinforcement Learning algorithms.
- Currently engaged in a PhD program as a side activity (since 2018)

06.2016 - 02.2019 | Senior Data Scientist at McKinsey & Company | Madrid, Spain

- Developed machine learning solutions for more than 10 clients around the globe belonging to 5 different industries.
- Developed 5 new applications for our clients using state-of-the-art Deep Learning techniques.
- Lead teams up to 10 data scientists and data engineers.

11.2014 - 06.2016 | Lead Data Scientist at Quarizmi AdTech | Valencia, Spain

- Used Machine Learning and NLP techniques to generate and maintain digital marketing campaigns in Google Adwords.

05.2014 - 11.2014 | Data Scientist at Psychology department of University of Valencia | Valencia, Spain

- Analyzed data coming from clinical psychology studies using advanced Machine Learning techniques

ACADEMIC HISTORY

2018-Present | Ph.D. in Deep Learning algorithms and applications | University of Valencia, Spain

2016-2018 | M.Sc. Languages and Computer Science Systems (NLP) | UNED, Spain

2009-2013 | B.Eng. Electronics of Telecommunications | University of Valencia, Spain

FURTHER EDUCATION

2018 | Deep Reinforcement Learning Nanodegree | Udacity

2018 | Practical Reinforcement Learning | National Research University Higher School of Economics, Coursera

2017 | Deep Learning Specialization | Andrew Ng, Coursera

2017 | Neural Networks and Machine Learning | Geoffrey Hinton, Coursera

... more than 30 additional MOOCs and online courses from Coursera, EdX, Udacity and Stanford Lagunita

PROJECTS AND ACHIEVEMENTS

06.2018 | Generative Adversarial Networks for text generation | M.Sc. thesis | Mark: 4/4

- Free text generation using Generative Adversarial Networks. The algorithm proposed was able to generate free text by combining a seq2seq and convolutional architecture with GP-GANs. Link: www.uv.es/ivape3/memoria_tfm.pdf

11.2012 | Application of Genetic Algorithms to Extreme Learning Machine | B.Eng. thesis | Mark: 3.7/4

- Developed the Genetic ELM algorithm: using Genetic Algorithms as an alternative method to Moore-Penrose pseudo-inverse for training shallow neural networks. Link: 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*, ...
- Developed the *somnia* library for running Self-Organising Maps in Python. Available in my GitHub.

Kaggle competitions: BNP: 22nd/2947 | Santander product recommendation: 22nd/1787 | Springleaf: 76th/2225.

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

SKILLS

Coding: Python (w/ Pytorch, Tensorflow and Ray+RLlib), Bash, R, Matlab, L^AT_EX, SQL, C++, Git & Mercurial, Docker

Big Data & cloud: Apache Spark, Redis, Amazon Web Services, Google Cloud, Terraform

Languages: native in Spanish and Catalan. Professional in English.

JOURNAL PAPERS

2020 [submitted] | Beating human performance at recognizing speech commands in temporal domain, *Neural Processing Letters*, Iván Vallés-Pérez, Fernando Mateo, Joan Vila-Francés, Antonio J. Serrano-López, Emilio Soria-Olivas

2014 | 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. Baños, E. Oliver, A.J. Cebolla, I. Vallés, E. Soria, C. Botella

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