

João Moreira

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Summary

Data scientist with a strong statistics background and experience in big data, machine learning, and data visualization. Strong critical thinker who always welcomes a challenge. Passionate about explaining data science to non-technical audiences.

Highly effective collaborator

Education

Ph.D. Chemical Engineering, Northwestern University Thesis: <i>The Effect of Gender Diversity in Creative Teams</i>	2012–2017
M.Sc. Physics, University of Lisbon, Portugal Thesis: <i>Evolutionary Dynamics of Cooperation in Multiplayer Games</i>	2009–2011
B.Sc. Physics, University of Lisbon, Portugal	2006–2009

Skills

Machine Learning	regression, classification, clustering, neural networks, data cleansing, feature engineering
Statistical Modeling	hypothesis testing, time-series analysis, cross-validation, regularization, bootstrapping, MapReduce
Programming	Python (numpy, scipy, pandas, scikit-learn, matplotlib, requests), R, BASH, LaTeX
Tools	Jupyter notebook, Sublime Text, Git, Mercurial, Excel
Databases	MySQL, MongoDB
Web Design	HTML, CSS, Javascript, D3.js

Experience

Data Scientist and Instructor

Northwestern University	Jan. 2012–Sep. 2017
<ul style="list-style-type: none">Used maximum likelihood estimation to parameterize the distribution of the impact of scientific publications (~1TB dataset).Constructed a Django web application with interactive D3.js visualizations to showcase my data-driven ranking of scientific research: http://forecite.us.Demonstrated the existence of historical gender discrimination in the movie industry by performing time-series analysis on IMDb metadata of +15k movies.Created and delivered original course materials on web-scraping and object-oriented programming to over 100 students in 2 sessions of a 1-week long Python programming bootcamp.Organized and led discussion groups, and graded homeworks for all students in 4 undergraduate courses.Mentored 2 younger graduate students and 2 high-school interns on the principles of scientific research and basics of programming.	

Data Science Intern

GadflyZone	Apr. 2016–Sep. 2016
<ul style="list-style-type: none">Constructed MySQL database of patents on Amazon Database Relational Services built from publicly available patent information.Used natural language processing and citation analysis to design a multidimensional scoring engine to predict a company's innovativeness.	

Software Engineer

Narrative Science	Jun. 2014–Sep. 2014
<ul style="list-style-type: none">Developed system to automatically analyze performance of the company's artificial intelligence platform.	