

João Moreira

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Summary

Data scientist with 3+ years of experience in using data-driven solutions to solve complex business problems. Experienced at managing the full lifecycle of predictive models from development to production, analyzing big datasets, and communicating insights to all stakeholders. Highly skilled in machine learning, data visualization, and creative thinking.

Skills

Machine Learning regression, classification, recommendations, deep learning, data cleansing, feature engineering, hypothesis testing

Programming Python, Spark, R, BASH, Unix, LaTeX

Tools Jupyter, Matplotlib, Dash, Tableau, Hadoop, SQL, Hive, AWS

Experience

Data Scientist

Cars.com

Oct. 2017–present

- Collaborated with engineers to develop an internal tool that automates the creation of user-configurable compute clusters in AWS.
- Led a 5-person cross-functional team on a data analysis project that identified market-based dealer dealer cancellation factors, improving both precision and recall of customer churn ML model by 12%, and established new KPI metric of customer satisfaction.
- Created the recommendations model underlying the Matchmaker experience that helps undecided shoppers find their most suited vehicle. Achieved 60% increase in return visitors and 10x increase in profile creation compared to traditional search.
- Contributed 10+ code pull requests to Skelebot, an open-source tool to manage Machine Learning projects, averaging 200+ downloads/month.
- Mentored 4 peers in data science, Python, and Spark best practices which enabled them to get promoted.

Data Science Intern

GadflyZone

Apr. 2016–Sep. 2016

- 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

- Developed system in agile environment to automatically analyze performance of the company's artificial intelligence platform.

Education

Ph.D. Chemical Engineering, Northwestern University

2012–2017

Thesis: *The Effect of Gender Diversity in Creative Teams*

M.Sc. Physics, University of Lisbon, Portugal

2009–2011

Thesis: *Evolutionary Dynamics of Cooperation in Multiplayer Games*

B.Sc. Physics, University of Lisbon, Portugal

2006–2009