

Juan Jose Carin

Data Scientist

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Professional Profile

Passionate about data analysis and experiments, mainly focused on user behavior, experience, and engagement, with a solid background in data science and statistics, and extensive experience using data insights to drive business growth.

Education

2016	University of California, Berkeley	Master of Information and Data Science	GPA: 3.93
	<i>Relevant courses:</i>		
	<ul style="list-style-type: none">Machine LearningMachine Learning at ScaleStoring and Retrieving Data	<ul style="list-style-type: none">Field ExperimentsApplied Regression and Time Series AnalysisExploring and Analyzing Data	<ul style="list-style-type: none">Data Visualization and CommunicationResearch Design and Applications for Data Analysis
2014	Universidad Politécnica de Madrid	M.S. in Statistical and Computational Information Processing	GPA: 3.69
	<i>Relevant courses:</i>		
	<ul style="list-style-type: none">Data MiningMultivariate AnalysisTime Series	<ul style="list-style-type: none">Neural Networks and Statistical LearningRegression and Prediction MethodsOptimization Techniques	<ul style="list-style-type: none">Monte Carlo TechniquesNumerical Methods in FinanceStochastic Models in FinanceBayesian Networks
2005	Universidad Politécnica de Madrid	M.S. in Telecommunication Engineering	GPA: 3.03
	<i>Focus Area:</i>	Radio communication systems (radar and mobile).	
	<i>Fellowship:</i>	First year at University, due to Honors obtained last year at high school.	

Skills

	<u>Programming / Statistics</u>	<u>Big Data</u>	<u>Visualization</u>	<u>Others</u>
Proficient:	<i>R, Python, SQL</i>	<i>Hadoop, Hive, MrJob</i>	<i>Tableau</i>	<i>Git, AWS</i>
Intermediate:	<i>SPSS, SAS, Matlab</i>	<i>Spark, Storm</i>		<i>Bash</i>
Basic:	<i>EViews, Demetra+</i>		<i>D3.js</i>	<i>Gephi, Neo4j, QGIS</i>

Experience

DATA SCIENCE

Jan. 2016 – Mar. 2016	Data Scientist CONENTO	Madrid, Spain (working remotely)
	<ul style="list-style-type: none">Designed and implemented the ETL pipeline for a predictive model of traffic on the main roads in eastern Spain (a project for the Spanish government).Automated scripts in <i>R</i> to extract, transform, clean (incl. anomaly detection), and load into <i>MySQL</i> data from multiple data sources: road traffic sensors, accidents, road works, weather.	
Jun. 2014 – Sep. 2014	Data Scientist CONENTO	Madrid, Spain
	<ul style="list-style-type: none">Designed an experiment for Google Spain (conducted in October 2014) to measure the impact of YouTube ads on the sales of a car manufacturer's dealer network.A matched-pair, cluster-randomized design, which involved selecting the test and control groups from a sample of 50+ cities in Spain (where geo-targeted ads were possible) based on their sales-wise similarity over time, using wavelets (and <i>R</i>).	

MANAGEMENT – SALES (Electrical Eng.)

Feb. 2009 – Aug. 2013	Head of Sales, Spain & Portugal – Test & Measurement dept. YOKOGAWA	Madrid, Spain
	<ul style="list-style-type: none">Applied analysis of sales and market trends to decide the direction of the department.Led a team of 7 people.	

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- Increased revenue by 6.3%, gross profit by 4.2%, and operating income by 146%, and achieved a 30% ratio of new customers (3x growth), by entering new markets and improving customer service and training.

SALES (Electrical Eng. & Telecom.)

- Apr. 2008 – Jan. 2009 **Sales Engineer – Test & Measurement dept.**
YOKOGAWA Madrid, Spain
- Promoted to head of sales after 5 months leading the sales team.
- Sep. 2004 – Mar. 2008 **Sales & Application Engineer**
AYSCOM Madrid, Spain
- Exceeded sales target every year from 2005 to 2007 (achieved 60% of the target in the first 3 months of 2008).

EDUCATION

- Jul. 2002 – Jun. 2004 **Tutor of Differential & Integral Calculus, Physics, and Digital Electronic Circuits**
ACADEMIA UNIVERSITARIA Madrid, Spain
- Highest-rated professor in student surveys, in 4 of the 6 terms.
 - Increased ratio of students passing the course by 25%.

Projects

See juanjocarin.github.io for additional information

- 2016 **SmartCam**
Capstone *Python, OpenCV, TensorFlow, AWS (EC2, S3, DynamoDB)*
A scalable cloud-based video monitoring system that features motion detection, face counting, and image recognition.
- 2015 **Implementation of the Shortest Path and PageRank algorithms with the Wikipedia graph dataset**
Machine Learning at Scale Hadoop MrJob, Python, AWS EC2, AWS S3
Using a graph dataset of almost half a million nodes.
- 2015 **Forest cover type prediction**
Machine Learning Python, Scikit-Learn, Matplotlib
A Kaggle competition: predictions of the predominant kind of tree cover, from strictly cartographic variables such as elevation and soil type, using random forests, SVMs, kNNs, Naive Bayes, Gradient Descent, GMMs, ...
- 2015 **Redefining the job search process**
Storing and Retrieving Data Hadoop HDFS, Hive, Spark, Python, AWS EC2, Tableau
A pipeline that combines data from Indeed API and the U.S. Census Bureau to select the best locations for data scientists based on the number of job postings, housing cost, etc.
- 2015 **A fresh perspective on Citi Bike**
Data Visualization and Communication Tableau, SQLite
An interactive website to visualize NYC Citi Bike bicycle sharing service.
- 2015 **Investigating the effect of competition on the ability to solve arithmetic problems**
Field Experiments R
A randomized controlled trial in which 300+ participants were assigned to a control group or one of two test groups to evaluate the effect of competition (being compared to no one or someone better or worse).
- 2014 **Prediction of customer churn for a mobile network carrier**
Data Mining SAS
Predictions from a sample of 45,000+ customers, using tree decisions, logistic regression, and neural networks.
- 2014 **Different models of Harmonized Index of Consumer Prices (HICP) in Spain**
Time Series SPSS, Demetra+
Forecasts based on exponential smoothing, ARIMA, and transfer function (using petrol price as independent variable) models.