Juan Jose Carin

Data Scientist

Mountain View, CA 94041 650-336-4590 | juanjose.carin@gmail.com linkedin.com/in/juanjosecarin | juanjocarin.github.io

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

Relevant courses:

- Machine Learning
- Machine Learning at Scale
- Storing and Retrieving Data

2014 Universidad Politécnica de Madrid

Relevant courses:

- Data Mining
- Multivariate Analysis
- Time Series

Master of Information and Data Science

- Field Experiments
- Applied Regression and Time Series Analysis
- Exploring and Analyzing Data

Data Visualization and Communication

 Research Design and Applications for Data Analysis

M.S. in Statistical and Computational Information Processing GPA: 3.69

- Neural Networks and Statistical Learning
- Regression and Prediction Methods
- Optimization Techniques
- Monte Carlo Techniques
- Numerical Methods in Finance
- Stochastic Models in Finance
- Bayesian Networks

2005 Universidad Politécnica de Madrid

M.S. in Telecommunication Engineering

GPA: 3.03

GPA: 3.93

Focus Area: Radio communication systems (radar and mobile).

Fellowship: First year at University, due to Honors obtained last year at high school.

Skills

	Programming / Statistics	Big Data	<u>Visualization</u>	<u>Others</u>
Proficient:	R, Python, SQL	Hadoop, Hive, MrJob	Tableau	Git, AWS
Intermediate:	SPSS, SAS, Matlab	Spark, Storm		Bash

Basic: EViews, Demetra+ D3.js Gephi, Neo4j, QGIS

Experience

DATA SCIENCE

Jan. 2016 – Mar. 2016 Data Scientist

CONENTO

Madrid, Spain (working remotely)

- 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 *R* to extract, transform, clean (incl. anomaly detection), and load into *MySQL* data from multiple data sources: road traffic sensors, accidents, road works, weather.

Jun. 2014 - Sep. 2014

Data Scientist

CONENTO

Madrid, Spain

- 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 saleswise similarity over time, using wavelets (and R).

MANAGEMENT – SALES (Electrical Eng.)

Feb. 2009 – Aug. 2013 Head of Sales, Spain & Portugal – Test & Measurement dept.

YOKOGAWA Madrid, Spain

- Applied analysis of sales and market trends to decide the direction of the department.
- Led a team of 7 people.

Juan Jose Carin

Data Scientist

Mountain View, CA 94041 650-336-4590 | juanjose.carin@gmail.com

linkedin.com/in/juanjosecarin | juanjocarin.github.io

• 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

• 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

Madrid, Spain

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

Field Experiments

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

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.

R