

Carlos López Roa

Senior Data Scientist

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languages

Spanish / Native

French / C1

English / TOEFL

German / A2

Italian / A1

programming

♥ Python, Scala,

Bash, SQL, JavaScript,

Matlab, Mathematica

data science

Convex optimization

Factorial Analysis

Classification

Clustering

Text Mining & NLP

Regression

Decision Trees

Neural Networks

Support Vector Machines

Probabilistic Graphical

Models

Recommendation Systems

mathematics

Complex & real analysis

Linear algebra

Graph Theory

Vector calculus

Ordinary & Partial

Differential Equations

Statistics & Probability

Functional analysis

Finite element analysis

Wavelet Analysis

Dynamical Systems

Resumé

Senior Data Scientist with more than 4 years of experience. Experience with Big Data in the Spark Framework using Scala, ingesting real time traffic from Apache Kafka and reading and writing to a Apache Cassandra Database. Further modeling done in Python's scikit learn and Tensorflow for Deep Neural Networks.

experience

- 01/20-09/21 **Tiime** Data Scientist
Keywords: Data Warehouse, Data Ingestion, Anomaly detection
Design, construction and operation of data ingestion engine for online analytics.
Anomaly detection on banking transaction data
- 05/19-12/19 **Keyrus** Data Scientist
Keywords: Consultant Data Science
Projects: Agence de Biomedecine, Direction Générale des Finances Publiques
Design and construction of an anomaly detection algorithm using Deep Neural Networks in the context of Big Data.
- 10/17-04/19 **Vente-privee.com** Data Scientist
Keywords: Recommender systems, Apache Spark, Cassandra, Kafka
Projects: Homepage and email personalisation
Real-time personalization using recommendation system algorithms in distributed architecture. 5 Million visitors personalized per day and 6 Million emails.
- 03/17-09/17 **Société nationale des chemins de fer français (SNCF)** Data Scientist
Keywords: GIS, Data Mining, Machine Learning, Deep Learning
Projects: Spatiotemporal data mining: Train delay prediction
Spatiotemporal Datawarehouse (GIS) design and implementation. Non linear regression, statistical learning and Deep Learning
- 02/15-08/15 **Dattlas - Kio Networks** Data Scientist
Keywords: Big Data, SAP HANA, Business Intelligence
Projects: Televisa-Izzi
SQL Scripting for OLAP analysis and custom made KPI calculation. Implementation and support of a Data Warehouse in SAP HANA with several ETLs. CHURN prediction using Hidden Markov Model

education

- 09/16-02/17 **M.Sc.** Data Mining and Knowledge Management Università Piemonte Orientale, AL, IT
Speciality: Relational Data Mining
- 09/15-08/16 **M.Sc.** Data Mining and Knowledge Management Université Lumière Lyon 2, Lyon, FR
Speciality: Data Mining and Complex System Modelling, cum laude
- 10/09-04/14 **B.Sc.** Technology Center of applied Physics and advanced Technology, UNAM, Qro, MX
Bubble dynamics subject to novel shockwave: High speed video
summa cum laude, top 3 best GPA 2011, 2012