Carlos **López Roa**
Data Scientist

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languages
Spanish / Native
French / B2
English / TOEFL
German / A2
Italian / A1

programming
Python, ♥Scala,
R, Java,
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

interests

Machine Learning, Artificial Intelligence, Big Data analytics, Deep Learning, Cloud computing, Internet of things, Sensorgrid, Web Mining, Embedded systems

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

experience

10/17-Today **Vente-privee.com** Data Scientist
Keywords: Recommender systems, Apache Spark, Cassandra, Kafka
Projects: Homepage and email personalisation
Personalization using recommendation system algorithms in distributed architecture.

03/17-09/17 **Société nationale des chemins de fer français (SNCF)** Data Scientist Intern
Keywords: GIS, Data Mining, Machine Learning, Deep Learning
Projects: Spatiotemporal data mining: Train delay prediction
Data consolidation trough cleaning and preprocessing. Datawarehouse design and implementation. Non linear regression, statistical learning and deeplearning

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. Reporting of custom made KPIs in mobile devices. Massive Parallel Processing with In-Memory RDMS.

06/14-06/16 **Prosciana** Founder, CTO
Keywords: Big Data, Cloud Computing, Internet of Things, Web Services
Projects: K13 | Alarmex | TopCar | Ultralam | Moringa | Lehvi | deconb | Britcan
Full stack development of web services for several stake-holders. Support of application and life cycle management.

01/14-06/14 **Vintalent Solutions** Data Scientist
Keywords: Web Services, Data Mining
Structuring data from unstructured data sources. Data collection and de-duplication using web service implementation.