

Xabier Azagirre

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Profile

Professional engineer expanding into data analytics, machine learning and management science. Pairing three years of IT Design Consulting and Project Management with expected Master of Engineering degree in Industrial Engineering and Operations Research (UC Berkeley, **May 2016**). Highly developed analytical skills, sound customer orientation and team leadership skills. Looking for a full time position - 36 months of work permit in the US (OPT & OPT STEM Extension)

Education

University of California, Berkeley

Expected May 2016



Master of Engineering, Industrial Engineering and Operations Research (Fellowship from 'La Caixa' nonprofit foundation)

Concentration: Computational Analytics and Management Science Estimated GPA: 3.89

Courses: Machine Learning (CS); Learning and Optimization; Applications in Data Analytics; Risk Modeling and Simulation; Portfolio and Risk Analytics; Optimization Analytics; Business Fundamentals (Business Analysis, Operations, Tech Strategy, Marketing, Negotiation, etc); Corporate Strategy in Telecom and Media (MBA); Information Technology Economics, Strategy, and Policy.

Relevant Projects:

- (1) "Big Data for Manufacturing" - building a real-time energy management and failure prediction platform for an entire manufacturing plant leveraging IoT technology and ML algorithms to optimize the energy efficiency in manufacturing.
- (2) Implementing semi-supervised machine learning algorithms to determine ride taxonomy and conduct causality analysis for promotion codes: *scikit-learn*, *pandas* and *numpy* (Python), R and Tableau (**LYFT**)
- (3) Analyzing MD&A section from 10K financial statements using NLTK (Natural Language Processing Toolkit) libraries to predict the performance of companies: using python (**PLURIBUS LABS**)
- (4) Programmed (Python) from scratch an array of Machine Learning algorithms (lasso/ridge regression, logistic regression, multivariate Gaussian distribution, CART and Random Forest, Neural Networks) for handwritten character recognition and built a joke recommendation system. PCA, LDA and ICA analysis.



University of the Basque Country, School of Engineering of Bilbao (Spain)

April 2012

Joint Bachelor & Master of Science, Electrical Engineering and Computer Science

Concentration: Telecommunications and Statistical Signal Processing GPA: 3.84 (9.61/10) – **awarded valedictorian**

Courses: Estimation Theory; Statistical Signal Processing; Data Transmission (Information Theory); Wireless & Optical Communications; Open Systems Interconnection; Introduction to Database Systems; Programming C/C++

Polytechnic School of Turin (Italy) Exchange Student for an academic year GPA: 28/30 (Erasmus European Union Scholarship)

Professional Experience

IDOM Engineering and Consulting (Madrid headquarters)

July 2012 – April 2015

IT Analyst and Project Manager - Relevant Projects and responsibilities:

- i) Data Analysis and Reporting management for FTTH fiber deployment (JAZZTEL Spain)
 - Led and collaborated with a 4-person team, who analyzed the data of over 100 fiber deployment projects of all over Spain and generated the reporting: **data analysis** for **strategic deployment locations** and **customer acquisition**, **predictive models** for **demand forecasting**; performance metrics; fault data analysis; cost estimation; risk management; fulfillment of objectives.
 - **Automated the reporting** using macros, which increased the efficiency of the team in 50%.
 - Defined, designed and implemented data **visualization modules** to create executive and more detailed **dashboards**: they kept track of project status, including relevant KPI metrics, cashflow graphics, and waterfall charts.
- ii) Data Analysis and Project Management of FTTH fiber deployment (ORANGE Espagne - France Telecom)
 - Led and collaborated with a 6-person multidisciplinary team, who supervised end-to-end designs, construction, implementation and database loading and conducted **analysis on performance data** to optimize processes.
 - Managed four deployment projects in Madrid (Spain), which constructed a fiber-tree covering 200.000 building units in 12 months, turning over half a million euros.
 - Interfaced the client and directed planning reschedules, controlled timelines and defined, designed and implemented a **homogenized reporting methodology**: KPIs, daily dashboards, fault reports, executive dashboards, etc.
 - Defined **data governance** policies for telco database management (Geographical Information System, O&M support, etc)
 - Interfaced vendors and created **models for stock management and demand forecasting**, and defined quality control procedures.



Skills Profile

Languages: Spanish (Native), Basque (Native), Italian (Fluent), French (Basics)

Workshops: Agile Project Management, Public Speaking & Presentations, Structured Cabling in Data Centers

Programs/Environments: Tableau, GitHub, MS Project, MS Office (Advanced Excel), Presto, GIS, AutoCAD

Programming Languages and OS's: Matlab, R, Python (*numpy*, *pandas*, *scikit-learn*), SQL, C/C++ (undergrad),

Unix, Linux

