Xabier Azagirre

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Profile

Professional engineer expanding into data analytics, machine learning and management science. Pairing three years of ICT Tech 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.

Education

University of California, Berkeley   Expected May 2016
Master of Engineering, Industrial Engineering and Operations Research (Fellowship from 'La Caixa' Spanish nonprofit foundation)
<u>Concentration:</u> Computational Analytics and Management Science   *Estimated GPA*: 3.89
<u>Courses:</u> Machine Learning; Applications in Data Analytics; Portfolio and Risk Analytics; Risk Modeling and Simulation; Optimization Analytics; Learning and Optimization; Business Fundamentals (Agile Project Management); Information Technology Economics, Strategy, and Policy; Advanced Project Planning and Control; Corporate Strategy in Telecom and Media (MBA).
<u>Capstone Project:</u> *"Big Data for Manufacturing"* - building a real-time energy management platform for an entire manufacturing plant leveraging IoT technology and machine learning algorithms to optimize the energy efficiency of manufacturing processes.
Other Relevant Projects:

(1) Implementing semi-supervised machine learning algorithms to determine ride taxonomy (**LYFT**)
Prospect use case: prediction of ride location and timeline for big events, gaining competitive advantage
(2) Analyzing 10K and 10Q financial statements using NLTK text processing libraries for classification, tokenization, stemming, tagging, parsing, and semantic reasoning, in order to assess the performance of public companies (**PLURIBUS LABS**)
(3) Implemented an array of supervised machine learning algorithms, such as SVM, Logistic Regression, Neural Networks, Multivariate Gaussian Processes or Random Forest, for handwritten character and spam recognition.
(4) Implemented unsupervised ML algorithms (k-means) for image clustering
(5) Deployed Marketing segmentation techniques to identify new target customer clusters (**TAILWIND**)

University of the Basque Country, School of Engineering of Bilbao (Spain)   April 2012
Joint Bachelor & Master of Science, Electrical Engineering and Computer Science
<u>Concentration:</u> Telecommunication Systems   *GPA:* 3.84 (9.61/10) – **awarded valedictorian (Summa Cum Laude)**
<u>Courses:</u> Computer Architecture; Data Transmission (Information Theory); Open Systems Interconnection; Programming (C and C++).
  Polytechnic School of Turin (Italy) Exchange Student for an academic year <u>GPA</u>: 28/30 (Erasmus European Union Scholarship)

Professional Experience

IDOM Engineering and Consulting (Madrid headquarters)   May 2012 – April 2015
IT Engineering Project Manager - Relevant Projects and responsibilities:

i) <u>Documentation and Reporting management for Fiber to the Home (FTTH) Deployment</u> (JAZZTEL Spain)
· Led a 4-people team, who generated the reporting of over 100 fiber deployment projects all over Spain: city regulation requirements; fulfillment of objectives; definition of planning and milestones; risk identification & management; cost estimation
· Automated the reporting with macros.
· Defined, designed and implemented executive and more detailed dashboards to keep track of project status, including relevant KPI metrics, cashflow graphics, and waterfall charts.

ii) <u>Project Management (& Site Management) of FTTH fiber deployment</u> (ORANGE Espagne - France Telecom)
· Led a 5-person team, who supervised and audited end-to-end designs, construction, implementation and database loading.
· 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.
· Defined data governance policies for database management
· Defined, designed and implemented a homogenized reporting methodology and a KPI dashboard to monitor, control and obtain a global and graphical vision of the projects current state and tracking for periodical stakeholders meetings.
· Directed planning reschedules, controlled timelines and coordinated my team in generating every deliverable: daily dashboards, fault reports, executive dashboards, etc. acting as a primary liaison.
· Defined training workshops: identified training needs, developed training documentation and organized workshops. Reduced the Full Operational Capability time by almost 40%

Skills Profile

Languages: Spanish (Native), Basque (Native), Italian (Fluent), French (Basics)
Workshops and Certificates: Agile Project Management (UC Berkeley), Machine Learning (Stanford University), R programming (D-Lab Berkeley), CCNA preparation (Cisco)
Programs/Environments: MS Project, Presto, MATLAB, Rstudio, GitHub, Microsoft Office (Advanced Excel), AutoCAD
Programming Languages and OS's: Matlab (proficient), R & Python (currently using), SQL, C/C++ (undergrad), Unix, Linux, Windows