

Marc Garcia

datapythonista.github.io



Experience

- Mar/2017– **Senior Data Scientist**, *Badoo*, London.
Present Data science projects for social data. Machine learning. Bayesian statistics.
- Mar/2015– **Contractor Data Scientist**, *Quantitative Mining*.
Present Data science and data engineering services.
- **Bank of America** Data pipelines implementation using parallel computing.
 - Technologies: Python, Quartz.
 - **Logitravel** Revenue optimization in digital marketing campaigns, using machine learning.
 - Technologies: Python, Pandas, Numpy, Sklearn, Bokeh, Mongo.
- Feb/2011– **Development leader**, *Nipon Telegraph and Telecom Corporation, NTT*, Barcelona.
Jan/2012 Development of sysadmin tools to automate backups, monitoring, server maintenance, etc. Maintenance of Information System for software and hardware inventory. Reporting systems with monitoring, fault, and performance information. Technologies: Python, Django, MySQL, Celery, XML RPC.
- May/2009– **Google Summer of Code Scholar**, *Django Software Foundation*.
Aug/2009 Internalization improvements in Django.
Technologies: Python, Django.
- Mar/2005– **Contractor software developer**, Barcelona.
Sept/2013 Development of ad-hoc software projects in Python.
- **Unilever** Application for hospitality section sales force.
 - Technologies: Python, Django, PostgreSQL, JavaScript, JQuery, FileSystem API.
 - **Caixabank** Website to manage school visits to museums owned by the bank.
 - Technologies: Python, Django, MySQL, JavaScript, JQuery.
- Mar/2003– **Software analyst**, *SBD Technologies (currently Alten)*, Barcelona.
Mar/2005 Responsible for the development of software projects for the banking industry.
- **CAM** Integration software for banking applications Kondor+ and Panorama.
 - Technologies: C, Solaris, Visual Basic, MS SQL Server.
 - **Caixabank** Software to manage the bank publicity budget.
 - Technologies: Visual Basic, Oracle.
- Feb/2001– **Programmer and BI consultant**, *Azertia (currently Indra)*, Barcelona.
Feb/2003 Software developer and Business Intelligence consultant in different projects.
- **Applus** Development of application for vehicle inspection.
 - Technologies: Visual Basic, MS SQL Server.
 - **Government of Catalonia** Reporting system for statistical demographic data.
 - Technologies: Visual Basic, MS SQL Server, Cognos.
 - **Gas Natural** Development of reporting system for customer information.
 - Technologies: Cognos.

Education

- Oct/2013–
Jun/2014 **International Master in Finance**,
Escuela de Alta Dirección y Administración, EADA, Barcelona.
Ranked 21st best pre-experience finance master in the world by Financial Times in 2013.
Main courses:
- **Corporate finance**: financial accounting, valuation, M&A, private finance, auditing.
 - **Financial markets**: risk management, equity markets, capital markets, forex, derivatives, energy markets, trading, portfolio management.
 - **Management education**: strategic management, leadership, personal communication, negotiation, team working, business analysis, ethics.
- Feb/2012–
Jun/2015 **Master in Artificial Intelligence**,
Universitat Politècnica de Catalunya, UPC, Barcelona.
Specialization in machine learning.
Master thesis on pattern recognition in financial time series in progress.
Main topics:
- **AI**: problem solving, complex networks, PGM.
 - **Machine learning**: supervised/unsupervised learning, data mining, optimization, validation protocol, computer vision, natural language processing.
- Technologies used:
- **Python for data analysis** (pandas, numpy, scipy, matplotlib and scikit-learn) for projects on machine learning, exploratory analysis and complex networks.
 - **R** for projects with neural networks.
 - **Matlab** for projects on computer vision.
 - **Java** for projects in problem solving and NLP.
 - **C** for projects on optimization.
- Feb/2001–
Jun/2011 **Technical Engineering in Computer Science**,
Universitat Oberta de Catalunya, UOC, Barcelona.
Specialization in business management.

Professional development

- 2012 **Introduction to computational finance and financial econometrics**
Coursera (University of Washington), 10 weeks
- 2012 **Introduction to Finance**, Coursera (University of Michigan), 10 weeks
- 2012 **Introduction to Statistics**, Udacity, 7 weeks
- 2012 **Machine Learning**, Coursera (Stanford University), 10 weeks
- 2011 **Introduction to Artificial Intelligence**, Udacity, 10 weeks
- 2005 **Ekon ERP**, CCS (Barcelona), 3 weeks
- 2002 **Java Servlets**, IDS Group (Barcelona), 80 hours
- 2001 **Cobol/CICS/DB2**, IESIM (Barcelona), 210 hours

Languages

Native **Spanish**
Fluent **English**
Basic **French**

Native **Catalan**
Fluent **Portuguese**

Computer skills

- Programming** Expert: Python, JavaScript/JQuery
Experience with: C, bash, PHP, VB/VBA, Java
Methodologies: TDD, OOP, Agile, Scrum
Tools: Git, Trac, Subversion
- Data tools** Pandas/numpy/scipy/sklearn, Matlab/Octave, R, Cognos
- Databases** Mongo, SQL, PostgreSQL, BigTable, MS SQL Server
- OS** Red Hat, Debian, Mac, Solaris, Microsoft Windows
- Misc** Django, Google App Engine, HTML/CSS, Computer networks

Talks

- 2017 Data visualisation summit, London. Data visualization in Python.
- 2017 ODSC Europe, London. Bayesian A/B testing.
- 2017 PyConPL, Ossa, Poland. Finding love in the age of big data.
- 2017 EuroPython, Rimini, Italy. A gentle introduction to data science.
- 2017 PyData Mallorca. Replicating the human brain: deep learning in action.
- 2016 Outreach Digital, London. Machine learning for digital advertising.
- 2016 PyData London. Machine learning for digital advertising.
- 2016 PyData Madrid. Understanding random forests.
- 2016 PyData Amsterdam. CART: Not only classification and regression trees.
- 2015 PyBCN, Barcelona. High Performance Python.
- 2011 EuroPyCon 2011, Florence, Italy. Remote execution of Python scripts.
- 2009 DjangoCon 2009, Portland, OR. Panel on GSoC projects.
- 2008 Jornades de programari lliure, Barcelona. Django tutorial.

Miscellaneous

- 2017–Present Organizer of the London Python Sprints meetup.
- 2016 Organizer of the PyData Mallorca meetup.
- 2013–2014 Class delegate at the International Master in Finance.
- 2012–2014 Organizer of a hiking group.
- 2010–2011 Organizer of the Portuguese language exchange group in Barcelona.
- 2007 Certificate in Massage Therapy, at Escola de Massatge Manual, Dr. Sagrera.