



## CONTACT

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## SKILLS

10+ yrs

Python  
Pytest  
Git  
HTML/CSS  
Javascript/jQuery  
JSON  
Linux

5+ yrs

Node.js  
Mocha  
Flatline  
WhizzML

3+ yrs

Django/DRF  
PostgreSQL

## LANGUAGES

**Catalan** Native  
**Spanish** Native  
**English** Proficient  
**French** High  
**German** Low

# Mercè Martín Prats

## Software Engineer and Machine Learning Promoter

### PROFILE

In the last years, I've been developing client side libraries that allow programmers to use many different kinds of Machine Learning models to make predictions. I also teach Machine Learning courses and certifications to customers and Companies or lecture in Machine Learning Schools events.

These activities put me in touch with our customers, sharpening my skills to understand their needs and improving my ability to create user-friendly solutions. Also, being part of a support team has contributed to enhancing my error-solving capacities.

I'm happy to work individually or in teams where attention to detail, tests and maintainability are required and appreciated.

### EXPERIENCE

#### VP of Insights and Applications at BigML Libraries Development and Education

Jul 2012 - NOW

BigML has developed an API-first platform to provide Machine Learning as a Service. My job consisted in developing the open-source libraries and utilities for other languages, like Python and Node.js, to interact with the Https REST API. Lately, my work has heavily shifted towards Education tasks and applying BigML's technology to Customer's Projects.

Python bindings creation and maintainance - <https://github.com/bigmlcom/python>

- Managing (CRUD) ML resources
- Creating predictions using the JSON export of 11 different ML models for: classification, regression, clustering, anomaly detection, topic modeling, association discovery, object detection.
- Creating evaluations, rules and other ML insights

Node.js bindings creation and maintainance - <https://github.com/bigmlcom/bigml-node>

- Managing (CRUD) ML resources
- Creating predictions using the JSON export of 11 different ML models for: classification, regression, clustering, anomaly detection, topic modeling, association discovery, object detection.
- Creating evaluations, rules and other ML insights

BigML-GAS: Using BigML in Google Sheets - <https://bigml.com/tools/bigml-gas>

- Google Sheets add-on developed in appsript allowing BigML's models to make predictions based on spreadsheets data

Coordinating other bindings development

- Coordinating Design and Implementation of the above mentioned utilities in other programming languages: Java, PHP, Swift, Clojure, etc.
- Assisting in customer support for the usage of BigML's platform

BigMLer command-line utility: <https://github.com/bigmlcom/bigmler>

- Designing and Implementing BigMLer, a command line application for descriptive Machine Learning model creation
- Designing and Implementing BigMLer's workflows for Cross-validation, Reification and Feature Selection.
- <https://github.com/bigmlcom/bigmler>

Developing Customer Projects

- Assisting in behavioural changes for patients in cardiac rehabilitation
- Object Detection for the Land Registry
- Mapping tool for e-learning, telecare, telework EU-funded projects - <https://mappingtool.projects-espaciainserta.com/tool>
- Hotel Accessibility
- Module to add BigML models in MLFlow - <https://github.com/bigmlcom/bigmlflow>
- Customer Assistance: creating and maintaining WhizzML scripts for Machine Learning Workflows - <https://github.com/whizzml/examples>

Education and Communication Tasks

- Lecturing in BigML's Machine Learning Schools - <https://bigml.com/education/#schools>
- Lecturing in Universities and Colleges: UB, UAB, UPV, Nyenrode, RDDC
- Designing BigML's Certification courses and Exams - <https://bigml.com/certifications>
- Lecturing and Evaluating BigML's Certification courses
- Designing and Lecturing in BigML's Workshops and Customized Machine Learning courses
- ML-related blog posts - <https://blog.bigml.com/author/martinprats>
- ML-related education Jupyter Notebooks - <https://github.com/mmerce/notebooks>

Technologies include:

- Python, Node.js, Pytest, Mocha, WhizzML, Flatline, Nginx, Github, MongoDB, Ubuntu
- Grafana, Docker, Streamlit, PostgreSQL
- JSON, Latex, HTML/CSS, Keynote

## EDUCATION

2008 - 2009

**Mathematical Sciences  
(sparse courses)**

UB - Barcelona

2000 - 2007

**Computer Science  
Technical Engineer**

UNED

1987 - 1996

**Theoretical Physics Ph.D.**

UB - Barcelona

## ONLINE COURSES

2025

**Power BI Visualizations**

www.adams.es

2012

**Software as a Service**

www.coursera.org

2012

**Algorithms I**

www.coursera.org

2012

**Natural Language  
Processing**

www.coursera.org

2011

**Artificial Intelligence  
Machine Learning**

www.coursera.org

## CONFERENCES

2024

**AI & Big Data Congress**

Barcelona

2019

**CodeMotion**

Milan

2019

**ML adoption (speaker)**

Glasgow

2015

**PyconEs (speaker)**

Valencia

2014

**Pycon**

Montreal

## Software Engineer

### Backend Developer at Neventum

Apr 2011 - Dec 2011

Neventum 3.0 platform's development, created from the evolution of many portals grown under neventum.com

- Development of modules in the platform
- Database schemas maintenance
- Development of the underlying programming framework (Lemur/PHP)
- Assisting in a Machine Learning proposal application

#### Technologies include:

- PHP, Lemur
- jQuery, Github
- MySQL, MongoDB

## Consultant and Software Engineer

### Software Developer at Habitatge Jove

2002 - 2004

Web and tailored backoffice utilities for flats and rooms rental administration. Web site includes a section where anyone can publish a room for rent offer for a limited amount of time, even if they are not managed by Habitatge Jove.

- Consulting and Management of DNS, Firewall and Backoffice application modifications
- Designing and implementing of new reports and queries with VBasic and Macros

#### Technologies include:

- VBA, ASP, Macros
- Access, Word, Excel

## Research and Development

### Systems Analyst at Interacció Editorial - Enciclopèdia Catalana

2000 - Dec. 2010

Responsible for the design and implementation of software required to edit and publish the Catalan Enciclopedia, Catalan Dictionary and other web-based products and services of the Publishing Company.

Responsible for the design and implementation of an Editor 2.0 for the articles in enciclopedia.cat. Including user authentication, versioning, workflow automation, document indexing and LaTeX mathematical edition capabilities

- Designing and implementing the edition and indexing process as services in an internal network
- Implementing a queue based system for steady parallel bulk updates
- Defining an XML schema for the documents
- Customizing of existing HTML editors to meet the XML syntax needs
- User authentication and permission management module

Design and Development of the 2.0 Editor and web site for Agora's (distribution company) dataset at agorallibres.cat

- Designing and implementing the edition and indexing process as services in an internal network
- Implementing internal RPG bulk updates
- Definition of an XML schema for the documents
- Customization of existing HTML editors to meet the XML syntax needs

Design and implementation of all the web sites created for the diverse company products

- Digec.cat: Commercial web site of EC addressed to bookstores. With user profile management and customer account information. Again an HTML export of the item fund database
- Dictionaries: *Diccionari multilingue*, *DIDAC diccionari de català*, *Multicerca Gran Diccionari de la Llengua Catalana*
- External projects: Intranet management application for EADOP's publishing projects (*Generalitat de Catalunya*)
- Educational CD-Roms: *Economia per a no economistes* (UB Media), *Diccionari de l'IEC*

#### Technologies include:

- RPG, PHP, JSP, Java
- MySQL, DB2
- TiniMC, Ajax

## OTHER COURSES

AJAX  
PHP  
JavaScript  
TCP/IP Networks Security  
ILE/RPG, DB2  
Visual C++

## ASSOCIATIONS

### ATI

[www.ati.es](http://www.ati.es)

### Societat Catalana de Física

[www.scfis.iec.cat](http://www.scfis.iec.cat)

### Cor de Cambra de la Diputació de Girona

[www.cordiputaciogirona.wordpress.com](http://www.cordiputaciogirona.wordpress.com)

### RPG programmer

#### Programmer at *Interacció Editorial - Enciclopèdia Catalana*

1998 - 2000

Involved in the development of the Educational Products created by the publishing company.

Educational CD-Roms development

- Compacta (3rd. edition – participating in all editions)
- *El món interactiu*

#### Technologies include:

- RPG
- DB2

### Administrative Assistant

#### Secretary tasks at *ProEixample*

1996 - 1998

Barcelona's City Hall civil servant.

Administrative tasks support for a Company promoting architectural renovation in the Eixample district

- Supporting accountability and administrative tasks
- Developing an application to help in renovation funding applications

#### Technologies include:

- VBA, Macros
- Access, Excel, Word

### Education and Research

#### Associated teacher at *University of Barcelona*

1993 - 1994

Teaching 3rd year courses for Physics students

- Lecturing Mathematical Methods III (problems)
- Monitoring and Evaluating Laboratory work
- Attending PhD courses, seminars and congresses

### Administrative Assistant

#### Secretary tasks at *Barcelona's City Hall Citizen Protection Service*

1988 - 1991

Barcelona's City Hall civil servant

Local Police and Firefighters Services' Coordination secretary

- Supporting administrative tasks
- Filing documents