

Aitor Mira Abad

Solving complex problems with data

About me

As a passionate artificial intelligence enthusiast, I embrace new technology and continuously engage in side projects and hands-on testing to expand my knowledge and skills. My strong analytical skills and ability to think critically make me particularly drawn to projects that involve high levels of uncertainty and the need for comprehensive problem-solving.

Contact



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Remote (Valencia, Spain)

+ info



Detailed CV

[Check following pages](#)



Web Portfolio

<https://itortouch.github.io>



Aitor Mira Abad



@iTortouch

Tech stack



Python



SQL



NoSQL



Unix



Bash



Git



Docker



Airflow



Pandas



Numpy



Scikit learn



Tensorflow



Pytorch



Huggingface



Javascript



HTML



CSS



Spreadsheet Scripting



Amazon Web Services



Google Cloud

Education



UNIVERSITAT POLITÈCNICA DE VALÈNCIA



香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Master degree in Transportation, Land and Urban Development

Sep 2015 - Sep 2018
(~3 years)

Specialized in transportation management and mobility behavior analysis. Milestones:

- President of the University Student Council.
- Promoe scholarship. One semester at the Hong Kong University of Science and Technology.
- Created a live traffic map for Hong Kong under a research group.
- Master's Thesis "Public Transportation Accessibility Model for the Alicante-Elx Metropolitan Area," using Python and JavaScript.



UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Civil Engineering

Sep 2010 - Jul 2015
(~ 4 years)

Bachelor's degree covering three main branches: structures, hydraulic, and transportation. Strong foundations in mathematics, statistics, and physics.

Career



Senior Data Scientist

Oct 2021 - today
(1 year and 5 months)

Senior Data Scientist developing core algorithms and researching innovative solutions for the retail industry at Nextail.

Some of the projects I've worked on or am currently working on include:

- Seasonal demand/stock forecast
- Product similarity algorithm
- Product demand potential forecast
- Assortment simulation and optimization



Team Lead Data Scientist

Jun 2019 - Oct 2021
(2 yrs. and 5 months)

Science team lead in the Innovation and Development department. Part manager, part hands-on developer.

Some of the projects I've led on:

- Churn forecast
- Long/short term demand forecast
- Automatic classification of customer service messages (NLP)
- Routing meta-optimization
- Business dashboard development



Data Analyst Mobility

Nov 2017 - May 2019
(1 year and 7 months)

Data science for traffic and mobility solutions development. Different methodologies are applied for solution development such as:

- Traffic eng. and flow analysis
- Time series imputation with ML
- Traffic forecast
- Spatial analysis and mobility interaction.




Aitor Mira Abad

ENJOYING SOLVING
COMPLEX PROBLEMS WITH
DATA

CONTACT

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MY LINKS

 [itortouch](#)

 [iTortouch](#)

 [aitor-mira](#)

 [itortouch.github.io](#)

 [mnf.red/aitor_mira](#)

Languages

Valencian



Spanish



English



Introduction

As a passionate artificial intelligence enthusiast, I embrace new technology and continuously engage in side projects and hands-on testing to expand my knowledge and skills. My strong analytical skills and ability to think critically make me particularly drawn to projects that involve high levels of uncertainty and the need for comprehensive problem-solving.

I have a diverse set of tools in my toolkit, including machine learning, deep learning, mathematics, statistics, and optimization, which I use to tackle complex problems and find innovative solutions. I am not only dedicated to developing cutting-edge solutions, but also to bringing these solutions to life through effective productization and team collaboration.

In addition to my technical skills, I have experience working both as a developer and as a team manager. This combination of technical expertise and leadership experience makes me a well-rounded candidate who can effectively contribute to any organization.

My skills

 Leadership skills

 Adaptability to change

 Analytical thinking

Technologies and tools

I MASTER

Python / TensorFlow / Unix / NoSQL / JavaScript / CSS / Pandas / Docker / AWS / D3 / PyTorch / Bash / Microsoft Excel / Visual Basic / Scikit-learn / SQL / SciPy / HTML / Numpy / Git / Airflow / Google Sheets



— Senior Data Scientist

Oct 2021 — TODAY (1 year and 5 months)

Senior Data Scientist developing core algorithms and researching innovative solutions for the retail industry at Nextail.

Some of the projects I've worked on or am currently working on include:

- Seasonal demand/stock forecasting
- Product similarity algorithm (attribute based)
- Product demand potential forecasting
- Assortment simulation and optimization

Working with tools such as:

- Python
- SQL (Aurora, Redshift, Snowflake)
- S3
- GIT (Github)
- Databricks
- Dagster
- DBT
- Data manipulation libraries (e.g. Pandas, Numpy...)
- Machine Learning libraries (e.g. Sklearn, XGBoost, lightGBM...)
- Deep Learning libraries (e.g. PyTorch, TensorFlow, HuggingFace, Spacy...)
- AutoML libraries (e.g. AutoGluon, PyCaret...)
- Linear Optimization libraries (PyOmo)
- Interactive demo tools (e.g. Gradio, Streamlit...)

TECHNOLOGIES AND TOOLS

Python / AWS / Docker / Git / Pandas / TensorFlow / Sklearn / S3 / PyTorch / Databricks / Snowflake / Redshift / Aurora

— Data Scientist

Jun 2019 — Oct 2021 (2 yrs. and 5 months)

Lead Data Scientist in the Innovation and Development department.

As part of this role, I was responsible for managing the team and getting the team to deliver. Part manager, part hands-on developer.

Some of the projects I've worked on:

- Churn forecasting
- Short term demand forecasting (truck by truck)
- Long term demand forecasting (per warehouse)
- Automatic classification of customer service messages (natural language processing)
- Routing meta-optimisation
- Business dashboard development

Work with tools such as

Working with tools as:

- Python
- SQL (Intersystems Cache)
- GIT (Bitbucket)
- Bash Scripting
- Containers (Docker)
- Data manipulation libraries (e.g. Pandas, Numpy...)
- Viz libraries (e.g. plotly, seaborn, bokeh...)
- Machine Learning libraries (e.g. Sklearn, XGBoost, lightGBM...)
- Deep Learning libraries (e.g. PyTorch, TensorFlow, HuggingFace, Spacy...)
- Microservices/API libraries (e.g. Flask, FastAPI...)
- Javascript
- HTML/CSS
- Dashboards (e.g. Qlik, Kibana)

TECHNOLOGIES AND TOOLS

Python / JavaScript / HTML / CSS / Docker / Google Analytics / SQL / Flask / Pandas / Numpy / Scikit-learn / D3 /

Google Data Studio / Kibana / Visual Basic / Bash / TensorFlow / Qlik / PyTorch

Data Analyst - Mobility

Nov 2017 — May 2019 (1 year and 7 months)

Data science for traffic and mobility solutions development. Different methodologies are applied for solution development such as:

1. Traffic engineering and flow analysis
2. Machine Learning (AI) models for forecasting and classification problems.
3. Spatial analysis and mobility interaction.

Working with tools as:

- Python
- Data manipulation libraries (e.g. Pandas, Numpy, GeoPandas...)
- Viz libraries (e.g. matplotlib, seaborn, bokeh...)
- Machine Learning libraries (e.g. Sklearn, XGBoost, lightGBM...)
- QGIS/ArcGIS
- Excel
- VBA for Apps
- Google Sheets
- Javascript
- HTML/CSS
- Google Cloud Platform

TECHNOLOGIES AND TOOLS

Python / JavaScript / Google Cloud / Pandas / Numpy / Scikit-learn / D3 / Visual Basic / Microsoft Power BI / Microsoft Excel / ArcGIS / QGIS / Google Sheets

EDUCATION/DEGREES

Degrees



Universitat Politècnica de València

Master degree in Transportation, Land and Urban Development

Sep 2015 — Sep 2018 (3 yrs. and 1 month)

Specialized in transportation management and mobility behavior analysis, my Master's degree journey was marked by several significant milestones, including:

- Being elected as the President of the University Student Council and serving as the Coordinator for university presidents in the Valencia region.
 - Receiving the PROMOE scholarship, which enabled me to complete my final semester of the Master's program at the Hong Kong University of Science and Technology (HKUST).
 - Joining a research group focused on big data visualization, where I created a live traffic map for Hong Kong.
 - Completing my Master's Thesis on the "Public Transportation Accessibility Model for the Alicante-Elx Metropolitan Area," using Python and JavaScript.
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Civil Engineering

Sep 2010 — Jul 2015 (4 yrs. and 11 months)

Bachelor's degree covering the three main branches: structures, hydraulic, and transportation, with a specialization in transportation and mobility analysis. Providing strong foundations in mathematics, statistics, and physics.

Certificates



Data Scientist with Python Track

Issued by: datacamp

May 2019 — TODAY (3 yrs. and 10 months)



BUT WAIT... THERE'S EVEN MORE IN MY PROFILE.

This is a short version of my Profile, but a longer one is available where you can see more interesting and relevant data.

[+ Click here](#) or scan the QR code