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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- itortouch@gmail.com
- Remote (Valencia, Spain)

+ info

Detailed CV
Check following pages

Web/Chat Portfolio
https://itortouch.github.io
https://huggingface.co/spaces/Aitor/CVchat

LinkedIn: Aitor Mira Abad

Twitter: @iTortouch

Tech stack

Python, SQL, NoSQL, Unix, Bash, Git, Docker, VectorDB

Pandas, Numpy, Scikit learn, LangChain, Pytorch, Huggingface

Javascript, HTML, CSS, Spreadsheet Scripting, Amazon Web Services, Google Cloud

Education

Master degree in Transportation, Land and Urban Development
UNIVERSITAT POLITÈCNICA DE VALÈNCIA / THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
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.

Civil Engineering
UNIVERSITAT POLITÈCNICA DE VALÈNCIA
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

diverger
LLM Engineer
Sep 2023 - Today

Developing products with core features relying over foundational models and working with LLM techniques.

Some of the projects I'm working on:
- Internal knowledge QA chatbot
- DB assistant
- Code assistant

nextail
Senior Data Scientist
Oct 2021 - Sep 2023
(~2 years)

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

Some of the projects I've worked on:
- Seasonal demand/stock forecast
- Product similarity algorithm
- Product demand potential forecast
- Assortment simulation and optimization

aquaservice
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
- Customer messages classification
- Routing meta-optimization
- Business dashboard development

CPS
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

SOLVING COMPLEX
PROBLEMS WITH DATA

CONTACT

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📍 Valencia, Spain

MY LINKS

 itortouch

 iTortouch

 aitor-mira

 itortouch.github.io

 mnf.red/aitor_mira

Languages

Valencian
NATIVE/BILINGUAL

Spanish
NATIVE/BILINGUAL

English
FLUID

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

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

PROFESSIONAL EXPERIENCE/CAREER

Diverger

LLM Engineer
Sep 2023 — TODAY (2 months)

Large Language Models Engineer developing products with functionalities relying over foundational models as GPT, Claude and many others. Taking care of the whole product from data ingestion, vector databases, LLM techniques and deployment.

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

- Legal document comparator
- Internal knowledge base QA chatbot
- Customer Attention chatbot
- Code assistant

Working with tools such as:

- Python
- Langchain
- Llamaindex
- OpenAI API
- Amazon Bedrock
- Azure
- Streamlit
- Docker
- JavaScript

TECHNOLOGIES AND TOOLS

Python / AWS / Docker / Azure

Senior Data Scientist

Oct 2021 — Sep 2023 (2 yrs.)

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

CPS Infraestructuras Movilidad y Medio Ambiente

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 Politènica 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.

Universitat Politècnica de València

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 (4 yrs. and 6 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