

# MARCAL SOTERAS

+353 83 078 5297 | marcalSJ03@gmail.com | linkedin.com/in/marcalsoteras | github.com/Marcals03 | marcalsoteras.com

## EDUCATION

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### Dublin Business School

BSc (Hons) Computing, Data Analytics & Big Data, First Class Honours (74.36%)

Dublin, Ireland  
Sep 2022 – May 2026

## PROJECTS

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### FugaML

Python, XGBoost, scikit-learn, FastAPI, MLflow, Docker, AWS

2026

- Built a config-driven churn prediction pipeline with XGBoost and scikit-learn, tracking four model experiments in MLflow and achieving 0.863 ROC-AUC on the Telco Customer Churn dataset, enabling businesses to identify at-risk customers before they leave.
- Developed a FastAPI inference endpoint with a dynamic Pydantic schema generated from a YAML config file, allowing the pipeline to adapt to any business dataset without code changes, and deployed the containerised API end-to-end on AWS App Runner via Docker.
- Applied SHAP explainability to surface month-to-month contracts and low tenure as the strongest churn predictors, giving retention teams actionable targets, and shipped pytest unit tests covering core preprocessing and prediction functions.

### Where Is Ireland Building?

Python, Pandas, DuckDB, Seaborn, Plotly, Streamlit

2026

- Built an end-to-end data pipeline ingesting two national CSO datasets covering housing completions and population estimates across 26 Irish counties from 2017 to 2025, cleaning and joining the data with Pandas and DuckDB to produce a unified analysis-ready dataset.
- Designed 4 analytical queries revealing critical regional supply imbalances, identifying Dublin's outsized 35.6% share of national completions and underperformance in high-growth counties such as Kerry and Mayo, providing evidence for targeted resource allocation.
- Deployed an interactive Streamlit dashboard with Plotly visualisations enabling policymakers and analysts to explore provincial and county-level housing trends across the full dataset period.

## EXPERIENCE

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### Lisdoo Bar & Restaurant

Kitchen Porter

Dundalk, Ireland  
Feb 2025 – Present

- Managed multiple concurrent tasks in a high-volume service environment, consistently meeting output expectations under time pressure across varied shift patterns.

### Gate Gourmet

Factory Operative

Dublin Airport, Ireland  
May 2023 – Feb 2025

- Maintained consistent output against strict quality, hygiene, and safety standards in a high-volume, audited production environment, following structured SOPs as part of a large multicultural team.

### Bellingham Castle

Housekeeping Assistant

Co. Louth, Ireland  
Jun 2022 – Mar 2023

- Maintained presentation standards across guest-facing areas in a premium hospitality setting, demonstrating strong time management and independent task prioritisation.

## TECHNICAL SKILLS

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- **Languages & Libraries:** Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, XGBoost, MLflow, FastAPI, SQL, DuckDB
- **Data & Machine Learning:** EDA, Feature Engineering, Classification, Model Deployment, Data Pipelines, Machine Learning
- **Visualisation & BI:** Plotly, Streamlit, Tableau, Power BI, Excel
- **Tools & Platforms:** GitHub, Docker, AWS, REST API, Jupyter Notebook