

READ ME

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OVERVIEW:

This project contains two main notebook workflows:

- **Regression Modeling (Ireland)** – Energy production forecasting
- **Classification Modeling (Portugal)** – Peak consumption detection

Folder Structure:

Instead of an ASCII tree, here is a simple list of folders and files:

- **Figs/**: Generated plots and figures
- **original dataset 1/**: Raw CSV data from Ireland
- **original dataset 2/**: Raw CSV data from Portugal
- **dataset used in code/**: Processed datasets used by the notebooks
- **Regression Model/**: Contains `energy_production_prediction_ie.ipynb` and related scripts
- **Classification Model/**: Contains `energy_comsuption_prediction.ipynb` and related scripts
- **Final Report.pdf**: Final project report
- **README.md**: This file

Prerequisites:

- Python 3.8+
- Recommended: Jupyter Notebook or Visual studio .

Attention:

1. All plots are saved automatically in the in directory containing the respective `.ipynb` files. Also to maintaining organized the figures was saved in `Figs/` directory.
2. The energy and weather csv in two directory of the respective `.ipynb` files was used just for treat feature interest, clean to generate clean dataset used to merge in the `.ipynb` files.

