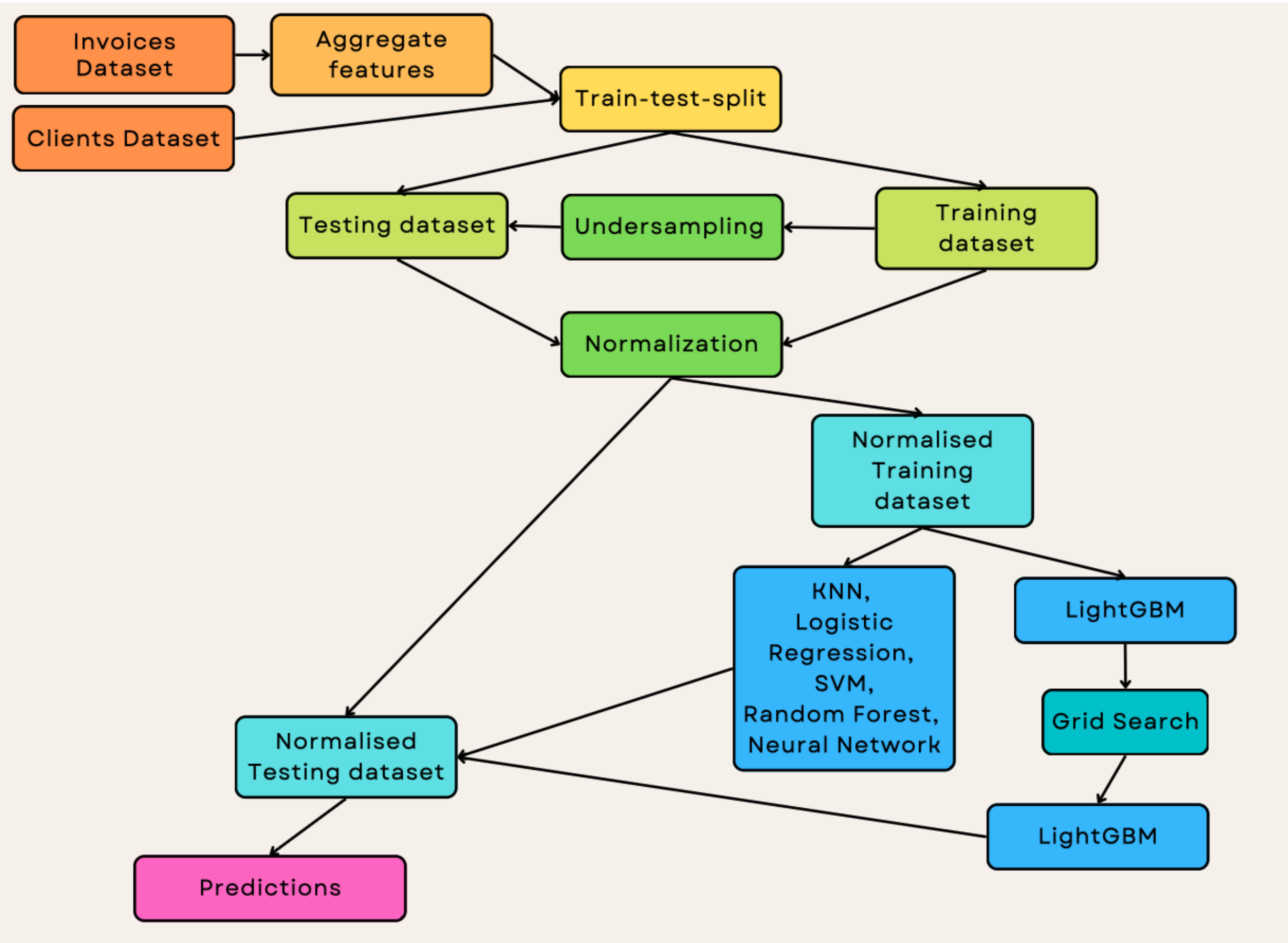# Application of machine learning models to detect fraudulent energy use

Description

This projects aims to find the best machine learning model to predict fraudulent energy use in a supervised classification problem.

Overall Workflow

Getting Started

Dependencies

Below are the versions of libraries that were used. Different versions may still work.

- python 3.9.13
- matplotlib 3.5.2
- numpy 1.21.6
- pandas 1.4.2
- sklearn 1.0.2
- tensorflow 2.9.2

Setup

Ensure client.csv and invoice.csv are located in the same directory as IT1244_Project.ipynb

Running the Project

- Open IT1244_Project.ipynb either in jupyter notebook (to run locally) or upload to google colab (to run on cloud).
- Running locally is recommended as it is much faster
- Run each cell block in the notebook sequentially

Authors

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