Human Occupancy Detection Using Smart Energy Meter.

Dataset:

The ECO (Electricity Consumption and Occupancy) data set is a comprehensive data set for non-intrusive load monitoring and occupancy detection research. It was collected in 6 Swiss households over a period of 8 months.

Motivation:
I am interested in working on this data set because it presents a special challenge for determining a person's daily energy use and how this knowledge can be utilized to further reform public policy choices about energy use, production, and distribution, assisting in making sure that resources are used as effectively and efficiently as possible.

Research Question:

- **Can one predict if a certain household in Zurich is currently occupied or not just by looking at their energy consumption and changes in the activation state of appliances?**

- **Can the model be further improved to predict occupancy if new feature set are considered?**

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