## Personalized Energy Assistant

CSE 551: Smart Energy in the Information Age

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## Project Idea and Plan

- 1. Personalized appliance usage recommender
- 2. Virtual chat bot to answer personalized and appliance specific queries
- 3. A multi-modal usage modeling with image and layout data (ambitious)

## Data

- Appliances Energy Consumption <a href="https://www.kaggle.com/datasets/gaganmaahi224/appliances-energy-consum-ption">https://www.kaggle.com/datasets/gaganmaahi224/appliances-energy-consum-ption</a>
- 2. Smart Home Energy Data <a href="https://www.kaggle.com/datasets/ethanedwards77/smart-home-energy-data">https://www.kaggle.com/datasets/ethanedwards77/smart-home-energy-data</a>
- Hourly energy demand generation and weather -<a href="https://www.kaggle.com/datasets/nicholasjhana/energy-consumption-generation-prices-and-weather?select=weather\_features.csv">https://www.kaggle.com/datasets/nicholasjhana/energy-consumption-generation-prices-and-weather?select=weather\_features.csv</a>
- 4. Energy consumption FAQ dataset
- 5. Smart device manuals

## Deliverables

- 1. Customized device specific control settings for a user with explanation
- 2. Smart energy assistant to answer energy usage and saving related questions
- To accommodate user environment and modeling plans for personalized recommendations