**2022**

**Tomorrow’s Innovator Award**

**Graduate Student Innovation Disclosure**

**Forecasting Residential Energy Consumption**

**Inventor:**
Chinmay Shah

- Developed by University of Alaska Fairbanks PhD student Chinmay Shah.

- Built residential power load forecasting technique that reduces the amount of data required for artificial intelligence to improve efficiency in power distribution network systems.

- Improved deep learning training times for residential appliance modeling, increasing the ease of energy management for arctic residents.