**MLA1 - CIA1**

**Domain-Specific Model Building**

Master of Business Administration

**By**

AJAY TOM

2227002

**Under the Guidance of**

Dr. Prof. Helen Josephine V L



**School of Business and Management**

**CHRIST (Deemed to be) University, Bangalore**

**JULY 2023**

# 1. Business Understanding

## 1.1. Industry

The Energy Management industry focuses on optimizing energy use, reducing wastage, and promoting sustainable practices for businesses and individuals. It involves monitoring, analyzing, and implementing strategies to improve energy efficiency and reduce environmental impact.

## 1.2. Detailed Problem Statement

Bengaluru experiences extreme temperatures during the summer, leading to increased reliance on air conditioning and cooling systems in commercial and residential buildings. This surge in cooling loads can lead to overloading of the electricity distribution system, causing potential blackouts, reduced service reliability, and increased operating costs. Therefore, understanding the factors that influence cooling load demands is crucial for enhancing energy efficiency and sustainability.

The specific problem is to investigate the influence of different building characteristics on cooling load demands experienced by various buildings throughout Bengaluru during the hot summer months.

This investigation aims to determine the key building attributes that significantly contribute to higher cooling loads and how these attributes vary across different areas and building types.

## 1.3. Objectives

* Identify significant building characteristics impacting cooling load demands during Bengaluru’s hot summer season.
* Investigate individual features’ effects on cooling load, understanding their positive or negative influences.
* Develop a predictive model for forecasting future summer cooling load demands, aiding effective energy distribution planning.

# 2. Data Understanding & Data Preparation

# 3. Modelling

# 4. Evaluation