**Research Questions**

### **Analyze correlations between each parameter: (Spearman’s rho)**

* **Correlation between Temperature Feature:**
  + Correlation between S1\_Temp and S2\_Temp.
  + Correlation between S1\_Temp and S3\_Temp.
  + Correlation between S1\_Temp and S4\_Temp.
* **Correlation between Light Feature:**
  + Correlation between S1\_Light and S2\_Light.
  + Correlation between S1\_Light and S2\_Light.
  + Correlation between S1\_Light and S4\_Light
* **Correlation between Sound Feature:**
  + Correlation between S1\_Sound and S2\_Sound.
  + Correlation between S1\_Sound and S3\_Sound.
  + Correlation between S1\_Sound and S4\_Sound.
* **Correlation between CO2 Feature:**
* Correlation between S5\_CO2 and S5\_CO2\_Slope.
* **Correlation between PIR Feature:**
* Correlation between S6\_PIR and S7\_PIR.

### **Analyze room occupancy condition: (Factor analysis)**

* + What is the main factor in the growth of room occupancy count?
  + Which factors often occur together when there is at least one person in the room?

1. **Analyze room occupancy in different conditions: (plot, t-test)**
   * How the main features influence the “Room\_Occupancy\_Count”?