# Studio-1

## Exploratory Data Analysis (EDA)

Analysing the Combined Cycle Power Plant database in details these are the main takeaways from its EDA:

* Exhaust Vacuum (V) and Ambient Temperature (AT) show strong positive correlations with PE (energy output), indicating they are key predictors for energy generation in the Steam Turbine.
* Ambient Pressure (AP) shows moderate correlations with PE, implying a fair bit of impact on the energy output
* Relative Humidity (RH) shows weak correlations with PE, implying limited direct impact on energy output.
* Ambient Pressure (AT) and Relative Humidity (RH) have a somewhat moderate correlation, which could be used later.
* Ambient Temperature (AT) and Exhaust Vacuum (V) have high correlation, indicating potential interactions between Gas and Steam Turbine performance.