

Approach:

The Datetime column of the given dataset has the Time in Timestamp format, it would be difficult for a ML algorithm to fit a curve for the single column, varying at each point i.e., Datetime.

Hence, converted the datetime column type to datetime from object datatype, and extracted the year, month, day, hour data from the given column.

The Correlation matrix depicts that hour and year influences the energy required by the state significantly.

However, with year, month, hour, day features, I trained a simple linear regression and fit the data given by the test set.