Approach using XGB:

1. Train data is read as ‘df’, then df is split into train and test data
2. Date and hour is combined to form datetime type.
3. Missing hour data is generate with demand value of 0.
4. Derive some extra features from the data like holiday or not,day of week etc. and adding them to the train ,test and df_test dataframes.
5. Training the model based on train data.
6. Validating on test data.
7. Then plotting graph for checking out the forecast.
8. RMSE value for the df is calculated.
9. Test dataset is read as df_test.
10. Same data manipulation is performed on it.
11. Predicting the test data using trained XGB into a variable predictions.
12. Predictions is set as the column of the dataframe
13. Reading the test data into a new variable called, finalpred
14. Adding predictions column to finalpred
15. Generating csv from finalpred using pandas.