**The dataset is related to rental bikes for urban cities. It is a concern to provide bikes to the public at right time. So, prediction of bikes count at each hour for the stability is the main part.**

1. Linear regression modules are imported and data is loaded into dbfsGraphical user interface, text, application, email

   Description automatically generated
2. The rows with missing values are dropped as shown.

Graphical user interface, application, table

Description automatically generated

1. The predicted column “Rented Bike Count” is given as “label”.

Graphical user interface, application

Description automatically generatedTable

Description automatically generated

1. Convert categorical variables(seasons, holiday, functioningday) to indexed columns for purpose of interpreting its impact.

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

1. Assembling all features together as shown. Data is transformed and splitted to train and test.

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, application

Description automatically generated with medium confidence

1. Linear regression is applied and fitted on bike\_train. Then use the model on test dataset to get predictions.

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

1. Root mean square error, residuals, pValues, Fvalues are shown from summary of the model.

Graphical user interface, text, application, email

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated