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      "from sklearn.preprocessing import LabelEncoder\n",
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"_ \n"
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FutureWarning: `distplot` is a deprecated function and will be removed in a future
version. Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).\n",
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            "/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619:
FutureWarning: `distplot` is a deprecated function and will be removed in a future
version. Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).\n",
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            "/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619:
FutureWarning: `distplot` is a deprecated function and will be removed in a future
version. Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).\n",
            " warnings.warn(msg, FutureWarning)\n",
```

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"/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619:
FutureWarning: `distplot` is a deprecated function and will be removed in a future
version. Please adapt your code to use either `displot` (a figure-level function with
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FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the
only valid positional argument will be `data`, and passing other arguments without an
explicit keyword will result in an error or misinterpretation.\n",
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FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the
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only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.\n",

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FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the
only valid positional argument will be `data`, and passing other arguments without an
explicit keyword will result in an error or misinterpretation.\n",
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FutureWarning: Automatic reindexing on DataFrame vs Series comparisons is deprecated and
will raise ValueError in a future version. Do `left, right = left.align(right, axis=1,
copy=False)` before e.g. `left == right`\n"
              \"\"Entry point for launching an IPython kernel.\n"
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          "text": [
            "/usr/local/lib/python3.7/dist-packages/seaborn/_decorators.py:43:
FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the
only valid positional argument will be `data`, and passing other arguments without an
explicit keyword will result in an error or misinterpretation.\n",
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                     filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",
                     fill: #FFFFFF;\n",
                   }\n",
              "
                 </style>\n",
              "\n",
                     <script>\n",
                       const buttonEl =\n",
                         document.querySelector('#df-8f71525e-7362-4cb2-a378-037cf8933646
button.colab-df-convert');\n",
                       buttonEl.style.display =\n",
              11
                          google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
              "\n",
                       async function convertToInteractive(key) {\n",
                          const element = document.querySelector('#df-8f71525e-7362-4cb2-
a378-037cf8933646');\n",
                          const dataTable =\n",
                            await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
                                                                       [key], {});\n",
              11
                          if (!dataTable) return;\n",
              "\n",
                          const docLinkHtml = 'Like what you see? Visit the ' +\n'',
                            '<a target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data_table
notebook</a>'\n",
                            + ' to learn more about interactive tables.';\n",
              11
                          element.innerHTML = '';\n",
              11
                          dataTable['output_type'] = 'display_data';\n"
              11
                          await google.colab.output.renderOutput(dataTable, element);\n",
                          const docLink = document.createElement('div');\n",
                          docLink.innerHTML = docLinkHtml;\n",
                          element.appendChild(docLink); \n",
              11
                       }\n",
              11
                     </script>\n",
              11
                   </div>\n",
                 </div>\n",
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       "y = abalone.iloc[:, -1].values"
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       "scaler.fit(abalone)"
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     "cell_type": "code",
     "source": [
       "train_X,val_X,train_y,val_y = train_test_split(X, y, test_size = 0.2,
random_state = 0)"
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        "Shape of Validation X : (757, 8)\n"
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    "lr = LinearRegression()\n",
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  "metadata": {
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y_pred_val_lr))\n"
        "print(\"\\n\")\n"
        "print('MSE on Validation set :',metrics.mean_squared_error(val_y,
y_pred_val_lr))\n",
        "print(\"\\n\")\n"
        "print('RMSE on Validation set :',np.sqrt(metrics.mean_absolute_error(val_y,
y_pred_val_lr)))\n",
        "print(\"\\n\")\n",
        "print('R2 Score on Validation set :',metrics.r2_score(val_y, y_pred_val_lr))\n",
        "print(\"\\n\")"
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            "\n"
            "RMSE on Validation set : 1.127816008325795\n",
            "\n",
            "\n"
            "R2 Score on Validation set : 0.5119499107890585\n",
            "CPU times: user 6.26 ms, sys: 0 ns, total: 6.26 \text{ ms} \ n",
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        "svm.fit(train_X,train_y)"
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        "%%time\n"
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        "print('MAE on Validation set :',metrics.mean_absolute_error(val_y,
y_pred_val_svm))\n",
        "print(\"\\n\")\n",
        "print('MSE on Validation set :',metrics.mean_squared_error(val_y,
y_pred_val_svm))\n",
        "print(\"\\n\")\n",
        "print('RMSE on Validation set :',np.sqrt(metrics.mean_absolute_error(val_y,
y_pred_val_svm)))\n",
        "print(\"\\n\")\n",
        "print('R2 Score on Validation set :',metrics.r2_score(val_y,
y_pred_val_svm))\n",
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            "\n",
```

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"MSE on Validation set : 2.7012620714060267\n",
            "\n",
"\n",
            "RMSE on Validation set : 1.1049413010323623\n",
            "\n",
"\n",
            "R2 Score on Validation set : 0.5224440679687887\n",
            "\n",
            "\n"
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y_pred_val_dc))\n",
        "print(\"\\n\")\n",
        "print('MSE on Validation set :',metrics.mean_squared_error(val_y,
y_pred_val_dc))\n",
        "print(\"\\n\")\n"
        "print('RMSE on Validation set :',np.sqrt(metrics.mean_absolute_error(val_y,
y_pred_val_dc)))\n",
        "print(\"\\n\")\n",
        "print('R2 Score on Validation set :',metrics.r2_score(val_y, y_pred_val_dc))\n",
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            "\n",
            "\n"
            "RMSE on Validation set : 1.2803772561623212\n",
            "\n",
"\n",
            "R2 Score on Validation set : 0.13706896870869845\n",
            "\n",
            "\n"
            "CPU times: user 7.55 ms, sys: 962 μs, total: 8.51 ms\n",
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y_pred_val_lr))\n",
        "print('SVR R2 Score on Validation set :',metrics.r2_score(val_y,
y_pred_val_svm))\n",
        "print('Decision Tree Regressor R2 Score on Validation set
:',metrics.r2_score(val_y, y_pred_val_dc))"
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            "SVR R2 Score on Validation set : 0.5224440679687887\n",
            "Decision Tree Regressor R2 Score on Validation set : 0.13706896870869845\n"
          ]
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      ]
    }
```

}