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n",
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4177.000000 "count 4177.000000 4177.000000 4177.000000 4177.000000
0.359367 \\n", "mean 0.523992 0.407881 0.139516 0.828742
0.221963 \\n", "std 0.120093 0.099240 0.041827 0.490389
0.001000 \\n", "min 0.075000 0.055000 0.000000 0.002000
0.186000 \\n", "25% 0.450000 0.350000 0.115000 0.441500
0.336000 \\n", "50% 0.545000 0.425000 0.140000 0.799500
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1.488000 \\n", "max 0.815000 0.650000 1.130000 2.825500
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```

```
"\\n",
" Viscera weight Shell weight age \\n",
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" <th>Diameter</th>\\n",
" <th>Height</th>\\n",
" <th>Whole weight</th>\\n",
" <th>Shucked weight</th>\\n",
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```

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```

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"         title=\"Convert this dataframe to an interactive
table.\"\\n\",
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2.06.94zm10 10l1.94 2.06.94-2.06 2.06-.94-.94-2.06-.94-
2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-
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1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78 2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4
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"     </svg>\n",
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"\n",
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"        rgba(60, 64, 67, 0.15);\n",
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"    }\n",
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"        fill: #FFFFFF;\n",
"    }\n",
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"4c4d13d97390 button.colab-df-convert');\n",
"      buttonEl.style.display =\n",
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"\n",
"      async function convertToInteractive(key) {\n",
"      const element = document.querySelector('#df-d4a452f4-32cc-\n",
"433f-a964-4c4d13d97390');\n",
"      const dataTable =\n",
"      await\n",
"google.colab.kernel.invokeFunction('convertToInteractive',\n",
"      [key], {});\n",
"      if (!dataTable) return;\n",
"\n",
"      const docLinkHtml = 'Like what you see? Visit the ' +\n",
"      '<a target=\"_blank\"\n",
"href=https://colab.research.google.com/notebooks/data_table.ipynb>data table\n",
"notebook</a>'\n",
"      + ' to learn more about interactive tables.';\n",
"      element.innerHTML = '';\n",
"      dataTable['output_type'] = 'display_data';\n",
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```

```

        "
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            </div>\n",
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            "
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                    "Viscera weight 0\n",
                    "Shell weight 0\n",
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      "plt.grid(True)\n"
    ],
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        "height": 265
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behavior and is safe. \n",
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https://numpy.org/devdocs/release/1.20.0-notes.html#deprecations\n",
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"\n",
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"            const dataTable =\n",
"            await
google.colab.kernel.invokeFunction('convertToInteractive',\n",

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"                                                                    [key], {}));\n",
"        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",
"        element.innerHTML = '';\n",
"        dataTable['output_type'] = 'display_data';\n",
"        await google.colab.output.renderOutput(dataTable,
element);\n",
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"        element.appendChild(docLink);\n",
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"</div>\n",
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"3          0.1140      0.1550  11.5    0      0      1\n",
"4          0.0395      0.0550   8.5    0      1      0\n",
"...          ...          ...    ...    ...    ...    ...\n",
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"4173         0.2145      0.2605  11.5    0      0      1\n",
"4174         0.2875      0.3080  10.5    0      0      1\n",
"4175         0.2610      0.2960  11.5    1      0      0\n",
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  "    <div class=\"colab-df-container\">\n",
  "      <div>\n",
  "<style scoped>\n",
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  "    vertical-align: middle;\n",
  "  }\n",
  "\n",
  "  .dataframe tbody tr th {\n",
  "    vertical-align: top;\n",
  "  }\n",
  "\n",
  "  .dataframe thead th {\n",
  "    text-align: right;\n",
  "  }\n",
  "</style>\n",
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  "      <th>Shell weight</th>\n",
  "      <th>age</th>\n",
  "      <th>Sex_F</th>\n",
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"      <td>1</td>\n",
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table.\">\n",
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2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-
1.04.2-1.43.59L10.3 9.45l-7.72 7.72c-.78.78-.78 2.05 0 2.83L4 21.41c.39.39.9.59
1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78 2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4
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"      buttonEl.style.display =\n",
"        google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"\n",
"      async function convertToInteractive(key) {\n",
"        const element = document.querySelector('#df-ddf1b8e6-4619-
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"        const dataTable =\n",
"          await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
"                                   [key], {});\n",
"        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",
"        element.innerHTML = '';\n",
"        dataTable['output_type'] = 'display_data';\n",
"        await google.colab.output.renderOutput(dataTable,
element);\n",
"        const docLink = document.createElement('div');\n",
"        docLink.innerHTML = docLinkHtml;\n",
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"342	0.620	0.465	0.185	1.2740	0.579
"24	0.615	0.480	0.165	1.1615	0.513
"605	0.425	0.345	0.125	0.4250	0.160
"1292	0.515	0.400	0.135	0.6965	0.320

```

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  "    vertical-align: middle;\n",
  "  }\n",
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  "  }\n",
  "\n",
  "  .dataframe thead th {\n",
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  "  }\n",
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  "      <th>Height</th>\n",
  "      <th>Whole weight</th>\n",
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  "      <td>1.1615</td>

```

```

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"     <td>0.515</td>\n",
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"     <td>0.6965</td>\n",
"     <td>0.320</td>\n",
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2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-.94-.94-2.06-.94
2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-.92-.59-1.43-.59-.52 0-
1.04.2-1.43.59L10.3 9.45l-7.72 7.72c-.78.78-.78 2.05 0 2.83L4 21.41c.39.39.9.59
1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78 2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4
18.59l7.72-7.72 1.47 1.35L5.41 20z\"/>\n",
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"     }\n",

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```

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        "            fill: #174EA6;\n",
        "        }\n",
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        "            fill: #D2E3FC;\n",
        "        }\n",
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        "        [theme=dark] .colab-df-convert:hover {\n",
        "            background-color: #434B5C;\n",
        "            box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
        "            filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",
        "            fill: #FFFFFF;\n",
        "        }\n",
        "    </style>\n",
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        "        buttonEl.style.display =\n",
        "        google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
        "\n",
        "        async function convertToInteractive(key) {\n",
        "            const element = document.querySelector('#df-d4a78e8f-3f9e-
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        "            const dataTable =\n",
        "            await
        google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "            [key], {});\n",
        "            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",
        "            element.innerHTML = '';\n",
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        element);\n",
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          "342           0.3065          0.320  13.5      0      0      1\n",
          "24            0.3010          0.305  11.5      1      0      0\n",
          "605           0.0795          0.154  14.5      0      1      0\n",
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          "            vertical-align: top;\n",
          "          }\n",
          "          .dataframe thead th {\n",
          "            text-align: right;\n",
          "          }\n",
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          "              <th>Viscera weight</th>\n",
          "              <th>Shell weight</th>\n",
          "              <th>age</th>\n",
          "              <th>Sex_F</th>\n",
          "              <th>Sex_I</th>\n",
          "              <th>Sex_M</th>\n",
          "            </tr>\n",
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          "          <tbody>\n"
        ]
      }
    }
  ]
}

```

```

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"        <td>13.5</td>\n",
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"        <td>0</td>\n",
"        <td>1</td>\n",
"      </tr>\n",
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"        <td>0.320</td>\n",
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"        <td>1</td>\n",
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"      <tr>\n",
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"        <td>0.305</td>\n",
"        <td>11.5</td>\n",
"        <td>1</td>\n",
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"        <td>0</td>\n",
"      </tr>\n",
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"      <tr>\n",
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"        <td>0.175</td>\n",
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"        <td>1</td>\n",
"        <td>0</td>\n",
"      </tr>\n",
"    </tbody>\n",
"  </table>\n",
"</div>\n",
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onclick=\"convertToInteractive('df-b0ba09ba-aaa6-42aa-8b14-20db91fe54e8')\">\n",
"      title=\"Convert this dataframe to an interactive
table.\">\n",
"        style=\"display:none;\">\n",
"      \n",
"    <svg xmlns=\"http://www.w3.org/2000/svg\"
height=\"24px\" viewBox=\"0 0 24 24\">\n",
"      width=\"24px\">\n",
"        <path d=\"M0 0h24v24H0V0z\" fill=\"none\"/>\n",
"        <path d=\"M18.56 5.44l.94 2.06.94-2.06-.94-2.06-.94-.94-

```

```

2.06-.94 2.06-2.06.94zm-11 1L8.5 8.51.94-2.06 2.06-.94-2.06-.94L8.5 2.51-.94 2.06-
2.06.94zm10 101.94 2.06.94-2.06 2.06-.94-2.06-.94-.94-2.06-.94
2.06-2.06.94z\"/><path d=\"M17.41 7.961-1.37-1.37c-.4-.4-.92-.59-1.43-.52 0-
1.04.2-1.43.59L10.3 9.451-7.72 7.72c-.78.78-.78 2.05 0 2.83L4 21.41c.39.39.9.59
1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78 2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4
18.5917.72-7.72 1.47 1.35L5.41 20z\"/>\n",
" </svg>\n",
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" }\n",
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rgba(60, 64, 67, 0.15);\n",
" fill: #174EA6;\n",
" }\n",
"\n",
" [theme=dark] .colab-df-convert {\n",
" background-color: #3B4455;\n",
" fill: #D2E3FC;\n",
" }\n",
"\n",
" [theme=dark] .colab-df-convert:hover {\n",
" background-color: #434B5C;\n",
" box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
" 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-b0ba09ba-eea6-42aa-8b14-
20db91fe54e8 button.colab-df-convert');\n",
" buttonEl.style.display =\n",
" google.colab.kernel.accessAllowed ? 'block' : 'none';\n",
"\n",
" async function convertToInteractive(key) {\n",
" const element = document.querySelector('#df-b0ba09ba-eea6-
42aa-8b14-20db91fe54e8');\n",
" const dataTable =\n",

```

```

        "
        await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
        [key], {});\n",
        "
        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",
        "
        element.innerHTML = '';\n",
        "
        dataTable['output_type'] = 'display_data';\n",
        "
        await google.colab.output.renderOutput(dataTable,
element);\n",
        "
        const docLink = document.createElement('div');\n",
        "
        docLink.innerHTML = docLinkHtml;\n",
        "
        element.appendChild(docLink);\n",
        "
        }\n",
        "
        </script>\n",
        "
        </div>\n",
        "
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        "
        "
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    "ss=StandardScaler()\n",
    "x_train=ss.fit_transform(x_train)\n"
  ],
  "metadata": {
    "id": "Mt0DiZGCO_rD"
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{
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    "outputId": "bd265d5d-b29b-4508-d861-237c83c6084e"
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0.16887172,\n",
                "        0.4010574 ],\n",
                "       [ 0.28122061,  0.34471692, 12.2233613 ,  0.44264685,
0.0752172 ,\n",
                "        0.48213595],\n",
                "       [ 0.25486788,  0.32489707, 12.38503561,  0.43453436,
0.11700216,\n",
                "        0.44846349],\n",
                "       [ 0.09166571,  0.14756383, 10.91567777,  0.25665144,
0.47852571,\n",
                "        0.26482285],\n",
                "       [ 0.15098436,  0.19950638, 10.73934227,  0.2820824 ,
0.39123092,\n",
                "        0.32668669],\n",
                "       [ 0.14853366,  0.21547325, 12.27014313,  0.34812056,
0.34028823,\n",
                "        0.3115912 ],\n",
                "       [ 0.25785055,  0.34209658, 12.47128571,  0.47984956,
0.02140788,\n",
                "        0.49874256],\n",
                "       [ 0.2437972 ,  0.34819875, 14.54728868,  0.55628581, -
0.02169978,\n",
                "        0.46541396],\n",
                "       [ 0.28351697,  0.36951389, 13.30384807,  0.52634768, -
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                ]
            },
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    "execution_count": 34  
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