

CAR RESALE VALUE PREDECTION

```
print (" Assignment - 3")

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    },
    "kernelspec": {
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      "display_name": "Python 3"
    },
    "language_info": {
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    }
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      ],
      "metadata": {
```

```
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    ],
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    }
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```

```
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    "<IPython.core.display.HTML object>"
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    "\n",
    "      <input type=\"file\" id=\"files-1a8b4567-35a9-4b12-9b19-914950759a87\" name=\"files[]\" multiple disabled\n",
    "          style=\"border:none\" />\n",
    "      <output id=\"result-1a8b4567-35a9-4b12-9b19-914950759a87\">\n",
    "          Upload widget is only available when the cell has been executed in the\n",
    "          current browser session. Please rerun this cell to enable.\n",
    "      </output>\n",
    "      <script>// Copyright 2017 Google LLC\n",
    "      /\n",
    "      // Licensed under the Apache License, Version 2.0 (the \"License\");\n",
    "      // you may not use this file except in compliance with the License.\n",
    "      // You may obtain a copy of the License at\n",
    "      /\n",
    "      //      http://www.apache.org/licenses/LICENSE-2.0\n",
    "      /\n",
    "      // Unless required by applicable law or agreed to in writing, software\n",
    "      // distributed under the License is distributed on an \"AS IS\" BASIS,\n
```

```

    "// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express
or implied.\n",

    "// See the License for the specific language governing permissions and\n",

    "// limitations under the License.\n",

    "\n",

    "/*\n",

    " * @fileoverview Helpers for google.colab Python module.\n",

    " *\n",

    "(function(scope) {\n",

    "function span(text, styleAttributes = {}) {\n",

    "    const element = document.createElement('span');\n",

    "    element.textContent = text;\n",

    "    for (const key of Object.keys(styleAttributes)) {\n",

    "        element.style[key] = styleAttributes[key];\n",

    "    }\n",

    "    return element;\n",

    "}\n",

    "\n",

    "// Max number of bytes which will be uploaded at a time.\n",

    "const MAX_PAYLOAD_SIZE = 100 * 1024;\n",

    "\n",

    "function _uploadFiles(inputId, outputId) {\n",

    "    const steps = uploadFilesStep(inputId, outputId);\n",

    "    const outputElement = document.getElementById(outputId);\n",

    "    // Cache steps on the outputElement to make it available for the next
call\n",

```

```

" // to uploadFilesContinue from Python.\n",

"  outputElement.steps = steps;\n",

"\n",

"  return _uploadFilesContinue(outputId);\n",

"}\n",

"\n",

"// This is roughly an async generator (not supported in the browser
yet),\n",

"// where there are multiple asynchronous steps and the Python side is
going\n",

"// to poll for completion of each step.\n",

"// This uses a Promise to block the python side on completion of each
step,\n",

"// then passes the result of the previous step as the input to the next
step.\n",

"function _uploadFilesContinue(outputId) {\n",

"  const outputElement = document.getElementById(outputId);\n",

"  const steps = outputElement.steps;\n",

"\n",

"  const next = steps.next(outputElement.lastPromiseValue);\n",

"  return Promise.resolve(next.value.promise).then((value) => {\n",

"    // Cache the last promise value to make it available to the next\n",

"    // step of the generator.\n",

"    outputElement.lastPromiseValue = value;\n",

"    return next.value.response;\n",

"  });\n",

```

```

    "}\n",

    "\n",

    "/**\n",

    " * Generator function which is called between each async step of the
upload\n",

    " * process.\n",

    " * @param {string} inputId Element ID of the input file picker element.\n",

    " * @param {string} outputId Element ID of the output display.\n",

    " * @return {!Iterable<!Object>} Iterable of next steps.\n",

    " */\n",

    "function* uploadFilesStep(inputId, outputId) {\n",

    "    const inputElement = document.getElementById(inputId);\n",

    "    inputElement.disabled = false;\n",

    "\n",

    "    const outputElement = document.getElementById(outputId);\n",

    "    outputElement.innerHTML = ";\n",

    "\n",

    "    const pickedPromise = new Promise((resolve) => {\n",

    "        inputElement.addEventListener('change', (e) => {\n",

    "            resolve(e.target.files);\n",

    "        });\n",

    "    });\n",

    "\n",

    "    const cancel = document.createElement('button');\n",

    "    inputElement.parentElement.appendChild(cancel);

```

```
"  cancel.textContent = 'Cancel upload';\n",

"  const cancelPromise = new Promise((resolve) => {\n",

"    cancel.onclick = () => {\n",

"      resolve(null);\n",

"    };\n",

"  });\n",

"\n",

"  // Wait for the user to pick the files.\n",

"  const files = yield {\n",

"    promise: Promise.race([pickedPromise, cancelPromise]),\n",

"    response: {\n",

"      action: 'starting',\n",

"    },\n",

"  };\n",

"\n",

"  cancel.remove();\n",

"\n",

"  // Disable the input element since further picks are not allowed.\n",

"  inputElement.disabled = true;\n",

"\n",

"  if (!files) {\n",

"    return {\n",

"      response: {\n",

"        action: 'complete',\n",

"      },\n",

"    };\n",

  }
```

```

"    };\n",

"  }\n",

"\n",

"  for (const file of files) {\n",

"    const li = document.createElement('li');\n",

"    li.append(span(file.name, {fontWeight: 'bold'}));\n",

"    li.append(span(\n",

"      `${file.type} | | 'n/a'}) - ${file.size} bytes, `+\n",

"      `last modified: ${\n",

"        file.lastModifiedDate ?
file.lastModifiedDate.toLocaleDateString() :\n",

"          'n/a' - `));\n",

"    const percent = span('0% done');\n",

"    li.appendChild(percent);\n",

"\n",

"    outputElement.appendChild(li);\n",

"\n",

"    const fileDataPromise = new Promise((resolve) => {\n",

"      const reader = new FileReader();\n",

"      reader.onload = (e) => {\n",

"        resolve(e.target.result);\n",

"      };\n",

"      reader.readAsArrayBuffer(file);\n",

"    });\n",

"    // Wait for the data to be ready.\n",

```



```

"    let fileData = yield {\n",
"        promise: fileDataPromise,\n",
"        response: {\n",
"            action: 'continue',\n",
"        }\n",
"    };\n",
"\n",
"    // Use a chunked sending to avoid message size limits. See
b/62115660.\n",
"    let position = 0;\n",
"    do {\n",
"        const length = Math.min(fileData.byteLength - position,
MAX_PAYLOAD_SIZE);\n",
"        const chunk = new Uint8Array(fileData, position, length);\n",
"        position += length;\n",
"\n",
"        const base64 = btoa(String.fromCharCode.apply(null, chunk));\n",
"        yield {\n",
"            response: {\n",
"                action: 'append',\n",
"                file: file.name,\n",
"                data: base64,\n",
"            },\n",
"        };\n",
"\n",
"        let percentDone = fileData.byteLength === 0 ?\n",

```

```

        100 :\\n",

        Math.round((position / fileData.byteLength) * 100);\\n",

        percent.textContent = `${percentDone}% done`;\\n",

        "\\n",

        } while (position < fileData.byteLength);\\n",

        }\\n",

        "\\n",

        // All done.\\n",

        yield {\\n",

        response: {\\n",

        action: 'complete',\\n",

        }\\n",

        };\\n",

    }\\n",

    "\\n",

    "scope.google = scope.google || {};\\n",

    "scope.google.colab = scope.google.colab || {};\\n",

    "scope.google.colab._files = {\\n",

    _uploadFiles,\\n",

    _uploadFilesContinue,\\n",

    };\\n",

    })(self);\\n",

</script> "

]

},

```

```
      "metadata": {}

    },

    {

      "output_type": "stream",

      "name": "stdout",

      "text": [

        "Saving abalone.csv to abalone.csv\n"

      ]

    }

  ],

  "source": [

    "from google.colab import files\n",

    "uploaded = files.upload()"

  ]

},

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    "# 2. Load the dataset into the tool"

  ],

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},

{
```

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    "import numpy as np\n",
    "import matplotlib.pyplot as plt\n",
    "import seaborn as sns"
],
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"outputs": []
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    "cell_type": "code",
    "source": [
        "data=pd.read_csv(\"abalone.csv\")\n",
        "data.head()"
    ],
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            "height": 206
        },
        "id": "BOpFXZ2jcmHg",
```

```

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Viscera weight \\n",
            "0    M    0.455    0.365    0.095         0.5140         0.2245
0.1010  \\n",
            "1    M    0.350    0.265    0.090         0.2255         0.0995
0.0485  \\n",
            "2    F    0.530    0.420    0.135         0.6770         0.2565
0.1415  \\n",
            "3    M    0.440    0.365    0.125         0.5160         0.2155
0.1140  \\n",
            "4    I    0.330    0.255    0.080         0.2050         0.0895
0.0395  \\n",
            "\\n",
            "   Shell weight  Rings  \\n",
            "0           0.150    15  \\n",
            "1           0.070     7  \\n",
            "2           0.210     9  \\n",
            "3           0.155    10  \\n",
            "4           0.055     7  "
          ]
        }
      }
    ]
  }
}

```

],

"text/html": [

"\n",

"<div id=\"df-f93195dd-064e-4189-bbeb-92d20ea414d4\">\n",

"<div class=\"colab-df-container\">\n",

"<div>\n",

"<style scoped>\n",

".dataframe tbody tr th:only-of-type {\n",

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",

"<table border=\"1\" class=\"dataframe\">\n",

"<thead>\n",

"<tr style=\"text-align: right;\">\n",

"<th></th>\n",

"<th>Sex</th>\n",

"<th>Length</th>\n",

```

"      <th>Diameter</th>\n",
"      <th>Height</th>\n",
"      <th>Whole weight</th>\n",
"      <th>Shucked weight</th>\n",
"      <th>Viscera weight</th>\n",
"      <th>Shell weight</th>\n",
"      <th>Rings</th>\n",
"    </tr>\n",
"  </thead>\n",
"  <tbody>\n",
"    <tr>\n",
"      <th>0</th>\n",
"      <td>M</td>\n",
"      <td>0.455</td>\n",
"      <td>0.365</td>\n",
"      <td>0.095</td>\n",
"      <td>0.5140</td>\n",
"      <td>0.2245</td>\n",
"      <td>0.1010</td>\n",
"      <td>0.150</td>\n",
"      <td>15</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>1</th>\n",
"      <td>M</td>\n",

```

" <td>0.350</td>\n",
" <td>0.265</td>\n",
" <td>0.090</td>\n",
" <td>0.2255</td>\n",
" <td>0.0995</td>\n",
" <td>0.0485</td>\n",
" <td>0.070</td>\n",
" <td>7</td>\n",
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" <tr>\n",
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" <td>0.420</td>\n",
" <td>0.135</td>\n",
" <td>0.6770</td>\n",
" <td>0.2565</td>\n",
" <td>0.1415</td>\n",
" <td>0.210</td>\n",
" <td>9</td>\n",
" </tr>\n",
" <tr>\n",
" <th>3</th>\n",
" <td>M</td>\n",
" <td>0.440</td>\n",


```
"      <td>0.365</td>\n",
"      <td>0.125</td>\n",
"      <td>0.5160</td>\n",
"      <td>0.2155</td>\n",
"      <td>0.1140</td>\n",
"      <td>0.155</td>\n",
"      <td>10</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>4</th>\n",
"    <td>I</td>\n",
"    <td>0.330</td>\n",
"    <td>0.255</td>\n",
"    <td>0.080</td>\n",
"    <td>0.2050</td>\n",
"    <td>0.0895</td>\n",
"    <td>0.0395</td>\n",
"    <td>0.055</td>\n",
"    <td>7</td>\n",
"  </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>\n",
"  <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-f93195dd-064e-4189-bbeb-92d20ea414d4')\">\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-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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-
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 0-2.86z\"M5.41 20l4 18.59l7.72-7.72 1.47 1.35l5.41 20z\"/>\\n\",

"    </svg>\\n\",

"    </button>\\n\",

"    \\n\",

"    <style>\\n\",

"        .colab-df-container {\\n\",

"            display:flex;\\n\",

"            flex-wrap:wrap;\\n\",

"            gap: 12px;\\n\",

"        }\\n\",

"\\n\",

"        .colab-df-convert {\\n\",

"            background-color: #E8F0FE;\\n\",

"            border: none;\\n\",

```

```
"      border-radius: 50%;\n",
"      cursor: pointer;\n",
"      display: none;\n",
"      fill: #1967D2;\n",
"      height: 32px;\n",
"      padding: 0 0 0 0;\n",
"      width: 32px;\n",
"    }\n",
"\n",
"      .colab-df-convert:hover {\n",
"        background-color: #E2EBFA;\n",
"        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px\n        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-f93195dd-064e-4189-bbeb-92d20ea414d4 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-f93195dd-064e-4189-bbeb-92d20ea414d4');\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",
        "        await google.colab.output.renderOutput(dataTable,\n",
element);\n",
        "        const docLink = document.createElement('div');\n",
        "        docLink.innerHTML = docLinkHtml;\n",
        "        element.appendChild(docLink);\n",
        "    }\n",
        "</script>\n",
        "</div>\n",
        "</div>\n",
        " "
    ]
},
"metadata": {},
"execution_count": 13
}
]
},
{
    "cell_type": "code",
    "source": [
        "Age=1.5+data.Rings\n",
        "data[\"Age\"] = Age\n",
        "data=data.drop(columns=[\"Rings\"],axis=1)\n",
        "data.head()"
    ]

```

```
],
"metadata": {
  "colab": {
    "base_uri": "https://localhost:8080/",
    "height": 206
  },
  "id": "efpOxIpxfH--",
  "outputId": "e73a531e-fdf0-4159-8df3-bfd9e87213d0"
},
"execution_count": 14,
"outputs": [
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
        "   Sex  Length  Diameter  Height  Whole weight  Shucked weight
Viscera weight \\n",
        "0    M    0.455     0.365    0.095         0.5140         0.2245
0.1010  \\n",
        "1    M    0.350     0.265    0.090         0.2255         0.0995
0.0485  \\n",
        "2    F    0.530     0.420    0.135         0.6770         0.2565
0.1415  \\n",
        "3    M    0.440     0.365    0.125         0.5160         0.2155
0.1140  \\n",
        "4    I    0.330     0.255    0.080         0.2050         0.0895
0.0395  \\n",
```

```

"\n",

"    Shell weight    Age    \n",

"0            0.150  16.5  \n",

"1            0.070   8.5  \n",

"2            0.210  10.5  \n",

"3            0.155  11.5  \n",

"4            0.055   8.5  "

],

"text/html": [

    "\n",

    "    <div id=\"df-569ebd28-96fa-41ce-95c0-ea27c5374f33\">\n",

    "        <div class=\"colab-df-container\">\n",

    "            <div>\n",

    "<style scoped>\n",

    "        .dataframe tbody tr th:only-of-type {\n",

    "            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",

    "        }

```

```

"/style>\n",

"<table border=\"1\" class=\"dataframe\">\n",

"  <thead>\n",

"    <tr style=\"text-align: right;\">\n",

"      <th></th>\n",

"      <th>Sex</th>\n",

"      <th>Length</th>\n",

"      <th>Diameter</th>\n",

"      <th>Height</th>\n",

"      <th>Whole weight</th>\n",

"      <th>Shucked weight</th>\n",

"      <th>Viscera weight</th>\n",

"      <th>Shell weight</th>\n",

"      <th>Age</th>\n",

"    </tr>\n",

"  </thead>\n",

"  <tbody>\n",

"    <tr>\n",

"      <th>0</th>\n",

"      <td>M</td>\n",

"      <td>0.455</td>\n",

"      <td>0.365</td>\n",

"      <td>0.095</td>\n",

"      <td>0.5140</td>\n",

"      <td>0.2245</td>\n",

```



```
"      <td>0.1010</td>\n",
"      <td>0.150</td>\n",
"      <td>16.5</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>1</th>\n",
"    <td>M</td>\n",
"    <td>0.350</td>\n",
"    <td>0.265</td>\n",
"    <td>0.090</td>\n",
"    <td>0.2255</td>\n",
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"    <td>0.070</td>\n",
"    <td>8.5</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>2</th>\n",
"    <td>F</td>\n",
"    <td>0.530</td>\n",
"    <td>0.420</td>\n",
"    <td>0.135</td>\n",
"    <td>0.6770</td>\n",
"    <td>0.2565</td>\n",
"    <td>0.1415</td>
```

```
"      <td>0.210</td>\n",
"      <td>10.5</td>\n",
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"      <td>8.5</td>\n",

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"  </tbody>\n",

"</table>\n",

"</div>\n",

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"      title=\"Convert this dataframe to an interactive
table.\"\\n\",

"      style=\"display:none;\">\n",

"    \n\",

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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 2.06-.94-2.06-.94-2.06-
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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 2.14c.39.39.95.59 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\",

"    </svg>\n\",

"    </button>\n\",

"  \n\",

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"    }\n",

"\n",

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"        fill: #FFFFFF;\n",

"    }\n",

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"\n",

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"        buttonEl.style.display =\n",

"            google.colab.kernel.accessAllowed ? 'block' : 'none';\n",

"\n",

"        async function convertToInteractive(key) {\n",

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"            const dataTable =\n",

"                await  
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"                                    [key],

{});\n",

"            if (!dataTable) return;\n",

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```

        "\n",
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        "        '<a target=\"_blank\""
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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,
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        "        const docLink = document.createElement('div');\n",
        "        docLink.innerHTML = docLinkHtml;\n",
        "        element.appendChild(docLink);\n",
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"      <td>0.002000</td>\n",
"      <td>0.001000</td>\n",
"      <td>0.000500</td>\n",
"      <td>0.001500</td>\n",
"      <td>2.500000</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>25%</th>\n",
"    <td>NaN</td>\n",
"    <td>0.450000</td>\n",
"    <td>0.350000</td>\n",
"    <td>0.115000</td>\n",
"    <td>0.441500</td>\n",
"    <td>0.186000</td>\n",
"    <td>0.093500</td>\n",
"    <td>0.130000</td>\n",
"    <td>9.500000</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>50%</th>\n",
```

```
"      <td>NaN</td>\n",
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"      <td>0.425000</td>\n",
"      <td>0.140000</td>\n",
"      <td>0.799500</td>\n",
"      <td>0.336000</td>\n",
"      <td>0.171000</td>\n",
"      <td>0.234000</td>\n",
"      <td>10.500000</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>75%</th>\n",
"      <td>NaN</td>\n",
"      <td>0.615000</td>\n",
"      <td>0.480000</td>\n",
"      <td>0.165000</td>\n",
"      <td>1.153000</td>\n",
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"      <td>0.253000</td>\n",
"      <td>0.329000</td>\n",
"      <td>12.500000</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>max</th>\n",
"      <td>NaN</td>
```

```

"      <td>0.815000</td>\n",
"      <td>0.650000</td>\n",
"      <td>1.130000</td>\n",
"      <td>2.825500</td>\n",
"      <td>1.488000</td>\n",
"      <td>0.760000</td>\n",
"      <td>1.005000</td>\n",
"      <td>30.500000</td>\n",
"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"</div>\n",

"    <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-230d5971-6537-47bd-a2ad-20671ff30bfd')\" \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 2.06-.94-2.06-.94-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94L8.5 2.5l-.94 2.06-2.06.94zm10
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.39.39.59 1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78 2.81-2.81c.8-.78.8-
2.07 0-2.86z\"M5.41 20L4 18.59l7.72-7.72 1.47 1.35L5.41 20z\"/>\n",

```

```
" </svg>\n",

" </button>\n",

" \n",

" <style>\n",

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" display: flex;\n",

" flex-wrap: wrap;\n",

" gap: 12px;\n",

" }\n",

"\n",

" .colab-df-convert {\n",

" background-color: #E8F0FE;\n",

" border: none;\n",

" border-radius: 50%;\n",

" cursor: pointer;\n",

" display: none;\n",

" fill: #1967D2;\n",

" height: 32px;\n",

" padding: 0 0 0 0;\n",

" width: 32px;\n",

" }\n",

"\n",

" .colab-df-convert:hover {\n",

" background-color: #E2EBFA;\n",
```

```

"      box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px
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-230d5971-6537-47bd-a2ad-
20671ff30bfd 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-230d5971-
6537-47bd-a2ad-20671ff30bfd');\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",

        "</div>\n",

        " "
    ]

```

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    "execution_count": 28  
  }  
]  
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  "source": [  
    "# 5. Check for Missing values and deal with them."  
  ],  
  "metadata": {  
    "id": "FlAymrHgjuGG"  
  }  
},  
{  
  "cell_type": "code",  
  "source": [  
    "data.isnull().sum()"  
  ],  
  "metadata": {  
    "colab": {  
      "base_uri": "https://localhost:8080/"  
    },  
    "id": "KOUce7JVjwM0",
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```

        "outputId": "62945f5f-930a-445b-ac37-5450ddf38107"

    },

    "execution_count": 29,

    "outputs": [

        {

            "output_type": "execute_result",

            "data": {

                "text/plain": [

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                    "Length        0\n",

                    "Diameter      0\n",

                    "Height        0\n",

                    "Whole weight  0\n",

                    "Shucked weight 0\n",

                    "Viscera weight 0\n",

                    "Shell weight  0\n",

                    "Age          0\n",

                    "dtype: int64"

                ]

            },

            "metadata": {},

            "execution_count": 29

        }

    ]

},

```

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{  
  
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  "source": [  
  
    "# 6. Find the outliers and replace them outliers"  
  
  ],  
  
  "metadata": {  
  
    "id": "STViCuWujznl"  
  
  }  
  
},  
  
{  
  
  "cell_type": "code",  
  
  "source": [  
  
    "outliers=data.quantile(q=(0.25,0.75))\n",  
  
    "outliers"  
  
  ],  
  
  "metadata": {  
  
    "colab": {  
  
      "base_uri": "https://localhost:8080/",  
  
      "height": 112  
  
    },  
  
    "id": "iEeNb5p5j4pj",  
  
    "outputId": "210c117b-8ce5-4b5f-c89f-2688e2ad1dc3"  
  
  },  
  
  "execution_count": 30,  
  
  "outputs": [  

```

```

{
  "output_type": "execute_result",
  "data": {
    "text/plain": [
      "      Length  Diameter  Height  Whole weight  Shucked weight
Viscera weight  \\n",
      "0.25    0.450      0.35   0.115      0.4415      0.186
0.0935  \\n",
      "0.75    0.615      0.48   0.165      1.1530      0.502
0.2530  \\n",
      "\\n",
      "      Shell weight   Age  \\n",
      "0.25      0.130    9.5  \\n",
      "0.75      0.329   12.5  "
    ],
    "text/html": [
      "\\n",
      "  <div id=\"df-f7623ef2-e75f-4ea8-80d6-b3ebdbb5a332\">\\n",
      "    <div class=\"colab-df-container\">\\n",
      "      <div>\\n",
      "<style scoped>\\n",
      "      .dataframe tbody tr th:only-of-type {\\n",
      "        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",

"<table border=\"1\" class=\"dataframe\">\n",

"  <thead>\n",

"    <tr style=\"text-align: right;\">\n",

"      <th></th>\n",

"      <th>Length</th>\n",

"      <th>Diameter</th>\n",

"      <th>Height</th>\n",

"      <th>Whole weight</th>\n",

"      <th>Shucked weight</th>\n",

"      <th>Viscera weight</th>\n",

"      <th>Shell weight</th>\n",

"      <th>Age</th>\n",

"    </tr>\n",

"  </thead>\n",

"  <tbody>\n",

"    <tr>\n",

"      <th>0.25</th>\n",

"      <td>0.450</td>\n",

```

```

"      <td>0.35</td>\n",
"      <td>0.115</td>\n",
"      <td>0.4415</td>\n",
"      <td>0.186</td>\n",
"      <td>0.0935</td>\n",
"      <td>0.130</td>\n",
"      <td>9.5</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>0.75</th>\n",
"    <td>0.615</td>\n",
"    <td>0.48</td>\n",
"    <td>0.165</td>\n",
"    <td>1.1530</td>\n",
"    <td>0.502</td>\n",
"    <td>0.2530</td>\n",
"    <td>0.329</td>\n",
"    <td>12.5</td>\n",
"  </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>\n",
"    <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-f7623ef2-e75f-4ea8-80d6-b3ebdbb5a332')\">\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-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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 0-2.86z\"M5.41 20l4 18.59l7.72-7.72 1.47 1.35l5.41 20z\"/>\n",

"    </svg>\n",

"    </button>\n",

"    \n",

"    <style>\n",

"        .colab-df-container {\n",

"            display: flex;\n",

"            flex-wrap: wrap;\n",

"            gap: 12px;\n",

"        }\n",

"\n",

"        .colab-df-convert {\n",

"            background-color: #E8F0FE;\n",

"            border: none;\n",

"            border-radius: 50%;\n",

"            cursor: pointer;\n",

```

```
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"  
      fill: #1967D2;\n",  
"  
      height: 32px;\n",  
"  
      padding: 0 0 0 0;\n",  
"  
      width: 32px;\n",  
"  
    }\n",  
"  
  \n",  
"  
  .colab-df-convert:hover {\n",  
"  
    background-color: #E2EBFA;\n",  
"  
    box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px  
    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-f7623ef2-e75f-4ea8-80d6-
b3ebdbb5a332 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-f7623ef2-e75f-
4ea8-80d6-b3ebdbb5a332');\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",
        "</div>\n",
        " "
    ]
},
"metadata": {},
"execution_count": 30
}
]
},
{
    "cell_type": "code",
    "source": [
        "a = data.Age.quantile(0.25)\n",
        "b = data.Age.quantile(0.75)\n",
        "c = b - a\n",
        "lower_limit = a - 1.5 * c\n",
        "data.median(numeric_only=True)"
    ]
}

```

```
],  
  
"metadata": {  
  
  "colab": {  
  
    "base_uri": "https://localhost:8080/"  
  
  },  
  
  "id": "xoFjC9OakBYL",  
  
  "outputId": "d1ed226c-ed6-4985-c71e-5059ecb27ef6"  
  
},  
  
"execution_count": 31,  
  
"outputs": [  
  
  {  
  
    "output_type": "execute_result",  
  
    "data": {  
  
      "text/plain": [  
  
        "Length          0.5450\n",  
  
        "Diameter        0.4250\n",  
  
        "Height          0.1400\n",  
  
        "Whole weight    0.7995\n",  
  
        "Shucked weight  0.3360\n",  
  
        "Viscera weight  0.1710\n",  
  
        "Shell weight    0.2340\n",  
  
        "Age             10.5000\n",  
  
        "dtype: float64"  
  
      ]  
  
    },  
  
  },  
  
]
```

```
    "metadata": {},

    "execution_count": 31

  }

]

},

{

  "cell_type": "code",

  "source": [

    "data['Age'] = np.where(data['Age'] < lower_limit, 7, data['Age'])\n",

    "sns.boxplot(x=data.Age,showfliers = False)"

  ],

  "metadata": {

    "colab": {

      "base_uri": "https://localhost:8080/",

      "height": 297

    },

    "id": "4tyfXIKgkGiz",

    "outputId": "e9b3ba1d-8e96-43c9-b0b5-dccb89e4c0ba"

  },

  "execution_count": 32,

  "outputs": [

    {

      "output_type": "execute_result",

      "data": {

        "text/plain": [
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```
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]

},

"metadata": {},

"execution_count": 32

},

{

  "output_type": "display_data",

  "data": {

    "text/plain": [

      "<Figure size 432x288 with 1 Axes>"

    ],

    "image/png":

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    9f9KZqS8cOZqHrvihuW/n8N23JMIcTtXhsfXBYxwDBmgiwABNBBigiQADNBFggCYCDNBEGAGaC

    DBAEwEGaCLAAE0EGKCJAAM0EWCAJgIM0ESAAZoIMEATAQZolsAATQQYolkAAzQRYIAmAgz

    QRIABmggwQBMBBmgiwABNBBigiQADNBFggCYCDNBEGAGaCDBAEwEGaCLAAE0EGKCJAAM

    0EWCAJgIM0ESAAZoIMEATAQZospAA7+3tZW9vbXGbApipefZrYy5f9Rz7+/uL2AzAzM2zXw5B

    ADQRYIAmAgzQRIABmggwQBMBBmgiwABNBBigiQADNBFggCYCDNBEGAGaCDBAEwEGaCLA

    AE0EGKCJAAM0EWCAJgIM0ESAAZoIMEATAQZolsAATQQYolkAAzQRYIAmAgzQRIABmggwQB

    MBBmgiwABNBBigiQADNBFggCYCDNBEGAGaCDBAEwEGaCLAAE0EGKCJAAM02VjERg4ODvLQ

    Qw/I5MmTi9gcM7S/v5/LHh7dY6yFy/7nP7K//59+D1bM/v5+Dh8+PJev/bR7wFX1hqo6XVWnz

    5w5M5chAC5FT7sHPMa4McmNSXL8+PGL2hXa2tpKktxwww0X8+k0OnnyZD7wL5/uHmMtPP

    qcL8/Oi4/5PVgx87zH4hgwQBMBBmgiwABNBBigiQADNBFggCYCDNBEGAGaCDBAEwEGaCLAA
```

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ZoIMEATAQZosrGljezs7CxiMwAzN89+LSTAu7u7i9gMwMzNs18OQQA0EWCAJgIM0ESAAZoIM
EATAQZolsAATQQYolkAAzQRYIAmAgzQRIABmggwQBMBBmgiwABNBBigiQADNBFggCYCDNB
EGaGACDBAEwEGaCLAAE0EGKCJAAM0EWCAJgIM0ESAAZoIMEATAQZolsAATQQYolkAAzQRYI
AmAgzQRIABmggwQBMBBmgiwABNBBigiUb3ACy/Q2cfyOG7b1nAdj6XJAvZVodDZx9lcqx7DJ
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AEwEGaCLAAE0EGKCJAAM0EWCAJgIM0ESAAZoIMEATAQZolsAATQQYolkAAzQRYIAmAgzQRI
ABmtQY40u/cdWZJJ+a3zhPajPJZe8zUWxttW1zuuzttn6bJKMMa4+94oLCnCHqj9xjjePcc8W
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  ],  
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        "  Sex  Length  Diameter  Height  Whole weight  Shucked weight
Viscera weight \\n",

        "0    M    0.455    0.365    0.095    0.5140    0.2245
0.1010  \\n",

        "1    M    0.350    0.265    0.090    0.2255    0.0995
0.0485  \\n",

        "2    F    0.530    0.420    0.135    0.6770    0.2565
0.1415  \\n",

        "3    M    0.440    0.365    0.125    0.5160    0.2155
0.1140  \\n",

        "4    I    0.330    0.255    0.080    0.2050    0.0895
0.0395  \\n",

        "\\n",

        "  Shell weight  Age  \\n",

        "0          0.150  16.5  \\n",

        "1          0.070   8.5  \\n",

        "2          0.210  10.5  \\n",

        "3          0.155  11.5  \\n",

        "4          0.055   8.5  "

      ],

      "text/html": [

```

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"  <div id=\"df-c7c3e6af-6a97-4a69-bece-584b1a049dd9\">\n",

"    <div class=\"colab-df-container\">\n",

"      <div>\n",

"<style scoped>\n",

"    .dataframe tbody tr th:only-of-type {\n",

"      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",

"<table border=\"1\" class=\"dataframe\">\n",

"  <thead>\n",

"    <tr style=\"text-align: right;\">\n",

"      <th></th>\n",

"      <th>Sex</th>\n",

"      <th>Length</th>\n",

"      <th>Diameter</th>\n",

"      <th>Height</th>\n",

```



```

"      <th>Whole weight</th>\n",
"      <th>Shucked weight</th>\n",
"      <th>Viscera weight</th>\n",
"      <th>Shell weight</th>\n",
"      <th>Age</th>\n",
"    </tr>\n",
"  </thead>\n",
"  <tbody>\n",
"    <tr>\n",
"      <th>0</th>\n",
"      <td>M</td>\n",
"      <td>0.455</td>\n",
"      <td>0.365</td>\n",
"      <td>0.095</td>\n",
"      <td>0.5140</td>\n",
"      <td>0.2245</td>\n",
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"      <td>16.5</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>1</th>\n",
"      <td>M</td>\n",
"      <td>0.350</td>\n",
"      <td>0.265</td>\n",

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"      <td>0.090</td>\n",
"      <td>0.2255</td>\n",
"      <td>0.0995</td>\n",
"      <td>0.0485</td>\n",
"      <td>0.070</td>\n",
"      <td>8.5</td>\n",
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"  <tr>\n",
"    <th>2</th>\n",
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"  <tr>\n",
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"    <td>0.365</td>\n",
"    <td>0.125</td>
```

```

"      <td>0.5160</td>\n",
"      <td>0.2155</td>\n",
"      <td>0.1140</td>\n",
"      <td>0.155</td>\n",
"      <td>11.5</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>4</th>\n",
"    <td>l</td>\n",
"    <td>0.330</td>\n",
"    <td>0.255</td>\n",
"    <td>0.080</td>\n",
"    <td>0.2050</td>\n",
"    <td>0.0895</td>\n",
"    <td>0.0395</td>\n",
"    <td>0.055</td>\n",
"    <td>8.5</td>\n",
"  </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>\n",
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onclick=\"convertToInteractive('df-c7c3e6af-6a97-4a69-bece-584b1a049dd9')\" \n",
"      title=\"Convert this dataframe to an interactive
table.\" \n",
"      style=\"display:none;\">\n",

```

```

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"      <path d=\"M18.56 5.44l.94 2.06.94-2.06.94-2.06-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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.39.39.95 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",

"    </svg>\n",

"    </button>\n",

"    \n",

"    <style>\n",

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"        gap: 12px;\n",

"      }\n",

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"        cursor: pointer;\n",

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```

```

"\n",

"      <script>\n",

"      const buttonEl =\n",

"      document.querySelector('#df-c7c3e6af-6a97-4a69-bece-584b1a049dd9 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-c7c3e6af-6a97-4a69-bece-584b1a049dd9');\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",
        "    </div>\n",
        "    "
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        "data.Sex = lab.fit_transform(data.Sex)\n",

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          Sex   Length   Diameter   Height   Whole weight   Shucked weight
\\n",
        "0      2     0.455     0.365     0.095         0.5140         0.2245
\\n",
        "1      2     0.350     0.265     0.090         0.2255         0.0995
\\n",
        "2      0     0.530     0.420     0.135         0.6770         0.2565
\\n",
        "3      2     0.440     0.365     0.125         0.5160         0.2155
\\n",
        "4      1     0.330     0.255     0.080         0.2050         0.0895
\\n",
        "\\n",
        "
          Viscera weight   Shell weight   Age   \\n",
        "0                   0.1010           0.150  16.5  \\n",
```



```

"1          0.0485          0.070   8.5  \n",
"2          0.1415          0.210  10.5  \n",
"3          0.1140          0.155  11.5  \n",
"4          0.0395          0.055   8.5   "
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  "  <div id=\"df-4658d318-5a9a-4356-b649-ec9747eaf722\">\n",
  "    <div class=\"colab-df-container\">\n",
  "      <div>\n",
  "<style scoped>\n",
  "    .dataframe tbody tr th:only-of-type {\n",
  "      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",
  "<table border=\"1\" class=\"dataframe\">\n",
  "  <thead>\n",

```

```

"      <tr style=\"text-align: right;\">\n",
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"      <th>Diameter</th>\n",
"      <th>Height</th>\n",
"      <th>Whole weight</th>\n",
"      <th>Shucked weight</th>\n",
"      <th>Viscera weight</th>\n",
"      <th>Shell weight</th>\n",
"      <th>Age</th>\n",
"    </tr>\n",
"  </thead>\n",
"  <tbody>\n",
"    <tr>\n",
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"      <td>0.365</td>\n",
"      <td>0.095</td>\n",
"      <td>0.5140</td>\n",
"      <td>0.2245</td>\n",
"      <td>0.1010</td>\n",
"      <td>0.150</td>\n",
"      <td>16.5</td>\n",

```

```
"    </tr>\n",
"    <tr>\n",
"        <th>1</th>\n",
"        <td>2</td>\n",
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"        <td>0.090</td>\n",
"        <td>0.2255</td>\n",
"        <td>0.0995</td>\n",
"        <td>0.0485</td>\n",
"        <td>0.070</td>\n",
"        <td>8.5</td>\n",
"    </tr>\n",
"    <tr>\n",
"        <th>2</th>\n",
"        <td>0</td>\n",
"        <td>0.530</td>\n",
"        <td>0.420</td>\n",
"        <td>0.135</td>\n",
"        <td>0.6770</td>\n",
"        <td>0.2565</td>\n",
"        <td>0.1415</td>\n",
"        <td>0.210</td>\n",
"        <td>10.5</td>\n",
"    </tr>\n",
```

```
"    <tr>\n",
"        <th>3</th>\n",
"        <td>2</td>\n",
"        <td>0.440</td>\n",
"        <td>0.365</td>\n",
"        <td>0.125</td>\n",
"        <td>0.5160</td>\n",
"        <td>0.2155</td>\n",
"        <td>0.1140</td>\n",
"        <td>0.155</td>\n",
"        <td>11.5</td>\n",
"    </tr>\n",
"    <tr>\n",
"        <th>4</th>\n",
"        <td>1</td>\n",
"        <td>0.330</td>\n",
"        <td>0.255</td>\n",
"        <td>0.080</td>\n",
"        <td>0.2050</td>\n",
"        <td>0.0895</td>\n",
"        <td>0.0395</td>\n",
"        <td>0.055</td>\n",
"        <td>8.5</td>\n",
"    </tr>\n",
" </tbody>\n",
```

```

"</table>\n",

"</div>\n",

"      <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-4658d318-5a9a-4356-b649-ec9747eaf722')\"\\n\",

"          title=\"Convert this dataframe to an interactive
table.\"\\n\",

"          style=\"display:none;\">\n",

"      \n\",

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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 2.06-.94-2.06-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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.39.39.95.59 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\",

"      </svg>\n",

"      </button>\n",

"      \n\",

"      <style>\n",

"      .colab-df-container {\n",

"          display:flex;\n",

"          flex-wrap:wrap;\n",

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"      }\n",

"\\n",

```

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"        cursor: pointer;\n",
"        display: none;\n",
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"        height: 32px;\n",
"        padding: 0 0 0 0;\n",
"        width: 32px;\n",
"      }\n",
"\n",
"      .colab-df-convert:hover {\n",
"        background-color: #E2EBFA;\n",
"        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px\n",
"        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-4658d318-5a9a-4356-b649-ec9747eaf722 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-4658d318-5a9a-4356-b649-ec9747eaf722');\n",
"        const dataTable =\n",
"          await\n",
"            google.colab.kernel.invokeFunction('convertToInteractive',\n",
"              [key],\n",
"            {});\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",

        "    </div>\n",

        "    "

    ]

},

"metadata": {},

"execution_count": 34

}

]

},

{

    "cell_type": "markdown",

    "source": [

```


"# 8. Split the data into dependent and independent variables."

```
],  
  
"metadata": {  
  
  "id": "YypF5-ATkduM"  
  
}  
  
},  
  
{  
  
  "cell_type": "code",  
  
  "source": [  
  
    "y = data[\"Sex\"]\n",  
  
    "y.head()"  
  
  ],  
  
  "metadata": {  
  
    "colab": {  
  
      "base_uri": "https://localhost:8080/"  
  
    },  
  
    "id": "4kj3KpWSkhLC",  
  
    "outputId": "7d16772e-e1ed-4ad8-80d5-ef8306679a26"  
  
  },  
  
  "execution_count": 35,  
  
  "outputs": [  
  
    {  
  
      "output_type": "execute_result",  
  
      "data": {  
  
        "text/plain": [  

```

```
        "0      2\n",
        "1      2\n",
        "2      0\n",
        "3      2\n",
        "4      1\n",
        "Name: Sex, dtype: int64"
    ]
},
"metadata": {},
"execution_count": 35
}
]
},
{
    "cell_type": "code",
    "source": [
        "x=data.drop(columns=[\"Sex\"],axis=1)\n",
        "x.head()"
    ],
    "metadata": {
        "colab": {
            "base_uri": "https://localhost:8080/",
            "height": 206
        },
        "id": "rtpeYkv6km4z",
```

```

      "outputId": "db5a2065-ef10-4226-b46a-d27b222740cb"
    },
    "execution_count": 36,
    "outputs": [
      {
        "output_type": "execute_result",
        "data": {
          "text/plain": [
            "
              Length  Diameter  Height  Whole weight  Shucked weight
Viscera weight \\n",
0.1010  "0  0.455    0.365    0.095      0.5140      0.2245
\\n",
0.0485  "1  0.350    0.265    0.090      0.2255      0.0995
\\n",
0.1415  "2  0.530    0.420    0.135      0.6770      0.2565
\\n",
0.1140  "3  0.440    0.365    0.125      0.5160      0.2155
\\n",
0.0395  "4  0.330    0.255    0.080      0.2050      0.0895
\\n",
\\n",
"
  Shell weight  Age  \\n",
"0          0.150  16.5  \\n",
"1          0.070   8.5  \\n",
"2          0.210  10.5  \\n",
"3          0.155  11.5  \\n",
"4          0.055   8.5  "
          ]
        }
      }
    ]
  }
}

```

],

"text/html": [

"\n",

"<div id=\"df-3caa9598-4aac-436a-8776-dab1821f5d95\">\n",

"<div class=\"colab-df-container\">\n",

"<div>\n",

"<style scoped>\n",

".dataframe tbody tr th:only-of-type {\n",

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",

"<table border=\"1\" class=\"dataframe\">\n",

"<thead>\n",

"<tr style=\"text-align: right;\">\n",

"<th></th>\n",

"<th>Length</th>\n",

"<th>Diameter</th>\n",

```

"      <th>Height</th>\n",
"      <th>Whole weight</th>\n",
"      <th>Shucked weight</th>\n",
"      <th>Viscera weight</th>\n",
"      <th>Shell weight</th>\n",
"      <th>Age</th>\n",
"    </tr>\n",
"  </thead>\n",
"  <tbody>\n",
"    <tr>\n",
"      <th>0</th>\n",
"      <td>0.455</td>\n",
"      <td>0.365</td>\n",
"      <td>0.095</td>\n",
"      <td>0.5140</td>\n",
"      <td>0.2245</td>\n",
"      <td>0.1010</td>\n",
"      <td>0.150</td>\n",
"      <td>16.5</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>1</th>\n",
"      <td>0.350</td>\n",
"      <td>0.265</td>\n",
"      <td>0.090</td>\n",

```

```
"      <td>0.2255</td>\n",
"      <td>0.0995</td>\n",
"      <td>0.0485</td>\n",
"      <td>0.070</td>\n",
"      <td>8.5</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>2</th>\n",
"    <td>0.530</td>\n",
"    <td>0.420</td>\n",
"    <td>0.135</td>\n",
"    <td>0.6770</td>\n",
"    <td>0.2565</td>\n",
"    <td>0.1415</td>\n",
"    <td>0.210</td>\n",
"    <td>10.5</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>3</th>\n",
"    <td>0.440</td>\n",
"    <td>0.365</td>\n",
"    <td>0.125</td>\n",
"    <td>0.5160</td>\n",
"    <td>0.2155</td>\n",
"    <td>0.1140</td>
```

```

"      <td>0.155</td>\n",
"      <td>11.5</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>4</th>\n",
"      <td>0.330</td>\n",
"      <td>0.255</td>\n",
"      <td>0.080</td>\n",
"      <td>0.2050</td>\n",
"      <td>0.0895</td>\n",
"      <td>0.0395</td>\n",
"      <td>0.055</td>\n",
"      <td>8.5</td>\n",
"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"</div>\n",
"    <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-3caa9598-4aac-436a-8776-dab1821f5d95')\">\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-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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.39.39.959 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",

"    </svg>\n",

"      </button>\n",

"    \n",

"  <style>\n",

"    .colab-df-container {\n",

"      display: flex;\n",

"      flex-wrap: wrap;\n",

"      gap: 12px;\n",

"    }\n",

"\n",

"    .colab-df-convert {\n",

"      background-color: #E8F0FE;\n",

"      border: none;\n",

"      border-radius: 50%;\n",

"      cursor: pointer;\n",

"      display: none;\n",

"      fill: #1967D2;\n",

"      height: 32px;\n",

"      padding: 0 0 0 0;\n",

"      width: 32px;\n",

```



```
"    }\n",

"\n",

"    .colab-df-convert:hover {\n",

"        background-color: #E2EBFA;\n",

"        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px\n        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-3caa9598-4aac-436a-8776-\ndab1821f5d95 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-3caa9598-4aac-436a-8776-dab1821f5d95');\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",

        "  </div>\n",

        "  "

      ]

    },

    "metadata": {},

    "execution_count": 36

  }

]

},

{

  "cell_type": "markdown",

  "source": [

    "# 9. Scale the independent variables."

  ],

  "metadata": {

    "id": "pM8M-L30kq2s"

  }

},

{

  "cell_type": "code",

  "source": [

    "from sklearn.preprocessing import scale\n",

    "X_Scaled = pd.DataFrame(scale(x), columns=x.columns)\n",

    "X_Scaled.head()"
  ]
}

```

```

],
"metadata": {
  "colab": {
    "base_uri": "https://localhost:8080/",
    "height": 206
  },
  "id": "Bj0Cb-EdkumS",
  "outputId": "10044f8f-9c64-4349-e457-0c2f80885fb4"
},
"execution_count": 37,
"outputs": [
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
        "
          Length  Diameter    Height  Whole weight  Shucked weight
Viscera weight \\n",
          "0 -0.574558 -0.432149 -1.064424    -0.641898    -0.607685
-0.726212  \\n",
          "1 -1.448986 -1.439929 -1.183978    -1.230277    -1.170910
-1.205221  \\n",
          "2  0.050033  0.122130 -0.107991    -0.309469    -0.463500
-0.356690  \\n",
          "3 -0.699476 -0.432149 -0.347099    -0.637819    -0.648238
-0.607600  \\n",
          "4 -1.615544 -1.540707 -1.423087    -1.272086    -1.215968
-1.287337  \\n",

```

```

"\n",

"    Shell weight          Age  \n",

"0      -0.638217  1.577830  \n",

"1      -1.212987 -0.919022  \n",

"2      -0.207139 -0.294809  \n",

"3      -0.602294  0.017298  \n",

"4      -1.320757 -0.919022  "

],

"text/html": [

    "\n",

    "    <div id=\"df-1066e004-0fd8-40cb-958f-6f8568b0c2af\">\n",

    "        <div class=\"colab-df-container\">\n",

    "            <div>\n",

    "<style scoped>\n",

    "        .dataframe tbody tr th:only-of-type {\n",

    "            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",

"<table border=\"1\" class=\"dataframe\">\n",

"  <thead>\n",

"    <tr style=\"text-align: right;\">\n",

"      <th></th>\n",

"      <th>Length</th>\n",

"      <th>Diameter</th>\n",

"      <th>Height</th>\n",

"      <th>Whole weight</th>\n",

"      <th>Shucked weight</th>\n",

"      <th>Viscera weight</th>\n",

"      <th>Shell weight</th>\n",

"      <th>Age</th>\n",

"    </tr>\n",

"  </thead>\n",

"  <tbody>\n",

"    <tr>\n",

"      <th>0</th>\n",

"      <td>-0.574558</td>\n",

"      <td>-0.432149</td>\n",

"      <td>-1.064424</td>\n",

"      <td>-0.641898</td>\n",

"      <td>-0.607685</td>\n",

"      <td>-0.726212</td>\n",

"      <td>-0.638217</td>\n",

```

```
"      <td>1.577830</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>1</th>\n",
"    <td>-1.448986</td>\n",
"    <td>-1.439929</td>\n",
"    <td>-1.183978</td>\n",
"    <td>-1.230277</td>\n",
"    <td>-1.170910</td>\n",
"    <td>-1.205221</td>\n",
"    <td>-1.212987</td>\n",
"    <td>-0.919022</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>2</th>\n",
"    <td>0.050033</td>\n",
"    <td>0.122130</td>\n",
"    <td>-0.107991</td>\n",
"    <td>-0.309469</td>\n",
"    <td>-0.463500</td>\n",
"    <td>-0.356690</td>\n",
"    <td>-0.207139</td>\n",
"    <td>-0.294809</td>\n",
"  </tr>\n",
"  <tr>\n"
```

```
"      <th>3</th>\n",
"      <td>-0.699476</td>\n",
"      <td>-0.432149</td>\n",
"      <td>-0.347099</td>\n",
"      <td>-0.637819</td>\n",
"      <td>-0.648238</td>\n",
"      <td>-0.607600</td>\n",
"      <td>-0.602294</td>\n",
"      <td>0.017298</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>4</th>\n",
"      <td>-1.615544</td>\n",
"      <td>-1.540707</td>\n",
"      <td>-1.423087</td>\n",
"      <td>-1.272086</td>\n",
"      <td>-1.215968</td>\n",
"      <td>-1.287337</td>\n",
"      <td>-1.320757</td>\n",
"      <td>-0.919022</td>\n",
"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"</div>\n",
```



```

"      <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-1066e004-0fd8-40cb-958f-6f8568b0c2af')\"\\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-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94L8.5 2.5l-.94 2.06-2.06.94zm10
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.39.39.95 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\",

"    </svg>\\n\",

"    </button>\\n\",

"    \\n\",

"    <style>\\n\",

"      .colab-df-container {\\n\",

"        display:flex;\\n\",

"        flex-wrap:wrap;\\n\",

"        gap: 12px;\\n\",

"      }\\n\",

"\\n\",

"      .colab-df-convert {\\n\",

"        background-color: #E8F0FE;\\n\",

```

```
"      border: none;\n",  
"  
"      border-radius: 50%;\n",  
"  
"      cursor: pointer;\n",  
"  
"      display: none;\n",  
"  
"      fill: #1967D2;\n",  
"  
"      height: 32px;\n",  
"  
"      padding: 0 0 0 0;\n",  
"  
"      width: 32px;\n",  
"  
"    }\n",  
"  
"\n",  
"  
"    .colab-df-convert:hover {\n",  
"  
"      background-color: #E2EBFA;\n",  
"  
"      box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px  
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-1066e004-0fd8-40cb-958f-6f8568b0c2af 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-1066e004-0fd8-40cb-958f-6f8568b0c2af');\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",
        "  </div>\n",
        "  "
    ]
  },
  "metadata": {},
  "execution_count": 37
}
]
},
{
  "cell_type": "markdown",
  "source": [
    "# 10. Split the data into training and testing."
  ],
  "metadata": {

```

```
      "id": "YL3a5tMDk374"
    }
  },
  {
    "cell_type": "code",
    "source": [
      "from sklearn.model_selection import train_test_split\n",
      "\n",
      "X_Train, X_Test, Y_Train, Y_Test = train_test_split(X_Scaled, y, test_size=0.2,\n",
      "random_state=0)"
    ],
    "metadata": {
      "id": "NMNNCDOTk53q"
    },
    "execution_count": 38,
    "outputs": []
  },
  {
    "cell_type": "code",
    "source": [
      "\n",
      "X_Train.shape,X_Test.shape"
    ],
    "metadata": {
      "colab": {
        "base_uri": "https://localhost:8080/"
      }
    },
    "execution_count": 39,
    "outputs": [
      {
        "output_type": "text",
        "text": "\n",
        "id": "output_39_0"
      },
      {
        "output_type": "text",
        "text": "X_Train.shape\n",
        "id": "output_39_1"
      },
      {
        "output_type": "text",
        "text": "X_Test.shape",
        "id": "output_39_2"
      }
    ]
  }
]
```

```
    "id": "8siCOr4Gk-D5",

    "outputId": "7cfec8e2-9996-4e8c-9b0b-e4d569a8ecfd"

  },

  "execution_count": 39,

  "outputs": [

    {

      "output_type": "execute_result",

      "data": {

        "text/plain": [

          "((3341, 8), (836, 8))"

        ]

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      "execution_count": 39

    }

  ],

},

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  ],

  "metadata": {

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    "outputId": "efaebdaa-74a8-440c-9442-cc313c794180"
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  "execution_count": 40,
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      "data": {
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        ]
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      "metadata": {},
      "execution_count": 40
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  ],
  },
  {
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      "X_Train.head()"
    ],
    "metadata": {
      "colab": {
```

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    "height": 206
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  "outputId": "ed03cd0a-4703-47fb-d4de-fbc3d92a833e"
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"outputs": [
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
        "
          Length  Diameter    Height  Whole weight  Shucked weight
\\n",
        "3141 -2.864726 -2.750043 -1.423087    -1.622870    -1.553902
\\n",
        "3521 -2.573250 -2.598876 -2.020857    -1.606554    -1.551650
\\n",
        "883   1.132658   1.230689   0.728888    1.145672
1.041436 \\n",
        "3627   1.590691   1.180300   1.446213    2.164373
2.661269 \\n",
        "2106   0.591345   0.474853   0.370226    0.432887
0.255175 \\n",
        "\\n",
        "
          Viscera weight  Shell weight    Age  \\n",
        "3141          -1.583867    -1.644065 -1.543234  \\n",

```



```

"3521      -1.565619      -1.626104 -1.387181  \n",
"883       0.286552       1.538726  1.577830  \n",
"3627      2.330326      1.377072  0.017298  \n",
"2106      0.272866      0.906479  1.265723  "
],
"text/html": [
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  "  <div id=\"df-3dc2bcea-c341-483f-bd8d-fb4f4f993c1e\">\n",
  "    <div class=\"colab-df-container\">\n",
  "      <div>\n",
  "<style scoped>\n",
  "    .dataframe tbody tr th:only-of-type {\n",
  "      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",
  "<table border=\"1\" class=\"dataframe\">\n",
  "  <thead>\n",

```

```

"    <tr style=\"text-align: right;\">\n",
"        <th></th>\n",
"        <th>Length</th>\n",
"        <th>Diameter</th>\n",
"        <th>Height</th>\n",
"        <th>Whole weight</th>\n",
"        <th>Shucked weight</th>\n",
"        <th>Viscera weight</th>\n",
"        <th>Shell weight</th>\n",
"        <th>Age</th>\n",
"    </tr>\n",
" </thead>\n",
" <tbody>\n",
"    <tr>\n",
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"        <td>-2.864726</td>\n",
"        <td>-2.750043</td>\n",
"        <td>-1.423087</td>\n",
"        <td>-1.622870</td>\n",
"        <td>-1.553902</td>\n",
"        <td>-1.583867</td>\n",
"        <td>-1.644065</td>\n",
"        <td>-1.543234</td>\n",
"    </tr>\n",
"    <tr>\n",

```

```
"      <th>3521</th>\n",
"      <td>-2.573250</td>\n",
"      <td>-2.598876</td>\n",
"      <td>-2.020857</td>\n",
"      <td>-1.606554</td>\n",
"      <td>-1.551650</td>\n",
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"      <td>-1.387181</td>\n",
"    </tr>\n",
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"    <th>883</th>\n",
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"    <td>1.230689</td>\n",
"    <td>0.728888</td>\n",
"    <td>1.145672</td>\n",
"    <td>1.041436</td>\n",
"    <td>0.286552</td>\n",
"    <td>1.538726</td>\n",
"    <td>1.577830</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>3627</th>\n",
"    <td>1.590691</td>\n",
"    <td>1.180300</td>
```

```

"      <td>1.446213</td>\n",
"      <td>2.164373</td>\n",
"      <td>2.661269</td>\n",
"      <td>2.330326</td>\n",
"      <td>1.377072</td>\n",
"      <td>0.017298</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>2106</th>\n",
"    <td>0.591345</td>\n",
"    <td>0.474853</td>\n",
"    <td>0.370226</td>\n",
"    <td>0.432887</td>\n",
"    <td>0.255175</td>\n",
"    <td>0.272866</td>\n",
"    <td>0.906479</td>\n",
"    <td>1.265723</td>\n",
"  </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>\n",
"    <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-3dc2bcea-c341-483f-bd8d-fb4f4f993c1e')\" \n",
"      title=\"Convert this dataframe to an interactive
table.\" \n",
"      style=\"display:none;\">\n",

```

```

"      \n",

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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-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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.39.39.95 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",

"    </svg>\n",

"    </button>\n",

"    \n",

"    <style>\n",

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"        flex-wrap: wrap;\n",

"        gap: 12px;\n",

"      }\n",

"\n",

"      .colab-df-convert {\n",

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"        border-radius: 50%;\n",

"        cursor: pointer;\n",

"        display: none;\n",

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```

```

"\n",

"      <script>\n",

"      const buttonEl =\n",

"      document.querySelector('#df-3dc2bcea-c341-483f-bd8d-
fb4f4f993c1e 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-3dc2bcea-
c341-483f-bd8d-fb4f4f993c1e');\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",
        "    </div>\n",
        "    "
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"execution_count": 41

}

]

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\\n",
        "668    0.216591  0.172519  0.370226      0.181016      -
0.368878  \\n",
        "1580 -0.199803 -0.079426 -0.466653      -0.433875      -0.443224
\\n",
        "3784  0.799543  0.726798  0.370226      0.870348
0.755318  \\n",
        "463   -2.531611 -2.447709 -2.020857      -1.579022      -1.522362
\\n",
        "2615  1.007740  0.928354  0.848442      1.390405
1.415417  \\n",
        "\\n",
        "
          Viscera weight  Shell weight      Age  \\n",
        "668          0.569396      0.690940  0.953617  \\n",
        "1580         -0.343004      -0.325685 -0.606915  \\n",
        "3784          1.764639      0.565209  0.329404  \\n",
        "463         -1.538247      -1.572219 -1.543234  \\n",
```

"2615 1.778325 0.996287 0.641511 "

],

"text/html": [

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" <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",

"<table border=\"1\" class=\"dataframe\">\n",

" <thead>\n",

" <tr style=\"text-align: right;\">\n",

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" <th>Length</th>\n",

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"      <th>Diameter</th>\n",
"      <th>Height</th>\n",
"      <th>Whole weight</th>\n",
"      <th>Shucked weight</th>\n",
"      <th>Viscera weight</th>\n",
"      <th>Shell weight</th>\n",
"      <th>Age</th>\n",
"    </tr>\n",
"  </thead>\n",
"  <tbody>\n",
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"      <td>0.172519</td>\n",
"      <td>0.370226</td>\n",
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"      <td>0.690940</td>\n",
"      <td>0.953617</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>1580</th>\n",
"      <td>-0.199803</td>\n",
"      <td>-0.079426</td>\n",

```

```
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"      <td>-0.343004</td>\n",
"      <td>-0.325685</td>\n",
"      <td>-0.606915</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>3784</th>\n",
"    <td>0.799543</td>\n",
"    <td>0.726798</td>\n",
"    <td>0.370226</td>\n",
"    <td>0.870348</td>\n",
"    <td>0.755318</td>\n",
"    <td>1.764639</td>\n",
"    <td>0.565209</td>\n",
"    <td>0.329404</td>\n",
"  </tr>\n",
"  <tr>\n",
"    <th>463</th>\n",
"    <td>-2.531611</td>\n",
"    <td>-2.447709</td>\n",
"    <td>-2.020857</td>\n",
"    <td>-1.579022</td>\n",
"    <td>-1.522362</td>
```

```

"      <td>-1.538247</td>\n",
"      <td>-1.572219</td>\n",
"      <td>-1.543234</td>\n",
"    </tr>\n",
"  <tr>\n",
"    <th>2615</th>\n",
"    <td>1.007740</td>\n",
"    <td>0.928354</td>\n",
"    <td>0.848442</td>\n",
"    <td>1.390405</td>\n",
"    <td>1.415417</td>\n",
"    <td>1.778325</td>\n",
"    <td>0.996287</td>\n",
"    <td>0.641511</td>\n",
"  </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>\n",
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onclick=\"convertToInteractive('df-3434da57-86d1-4fa5-8a29-d37e430d09ce')\">\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-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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 2.14c.39.39.95.59 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",

"    </svg>\n",

"    </button>\n",

"    \n",

"    <style>\n",

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"        display: flex;\n",

"        flex-wrap: wrap;\n",

"        gap: 12px;\n",

"      }\n",

"    \n",

"    .colab-df-convert {\n",

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"      border: none;\n",

"      border-radius: 50%;\n",

"      cursor: pointer;\n",

"      display: none;\n",

"      fill: #1967D2;\n",

"      height: 32px;\n",

"      padding: 0 0 0 0;\n",

```

```
"      width: 32px;\n",\n\n"    }\n",\n\n"\n",\n\n"    .colab-df-convert:hover {\n",\n\n"      background-color: #E2EBFA;\n",\n\n"      box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px\n        rgba(60, 64, 67, 0.15);\n",\n\n"      fill: #174EA6;\n",\n\n"    }\n",\n\n"\n",\n\n"    [theme=dark] .colab-df-convert {\n",\n\n"      background-color: #3B4455;\n",\n\n"      fill: #D2E3FC;\n",\n\n"    }\n",\n\n"\n",\n\n"    [theme=dark] .colab-df-convert:hover {\n",\n\n"      background-color: #434B5C;\n",\n\n"      box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",\n\n"      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\n",\n\n"      fill: #FFFFFF;\n",\n\n"    }\n",\n\n"  </style>\n",\n\n"\n",\n\n"  <script>\n",\n\n"    const buttonEl =
```

```

"        document.querySelector('#df-3434da57-86d1-4fa5-8a29-
d37e430d09ce 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-3434da57-
86d1-4fa5-8a29-d37e430d09ce');\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",
        " </div>\n",
        " "
    ]
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"metadata": {},
"execution_count": 42
}
]
},
{
    "cell_type": "code",
    "source": [
        "Y_Train.head()"
    ],
    "metadata": {
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        },
        "id": "zbZE8hQcIldE",
        "outputId": "15d653db-d7d9-4bcc-f683-d149a8c0773b"
    },
    "execution_count": 43,

```

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  {

    "output_type": "execute_result",

    "data": {

      "text/plain": [

        "3141      1\n",

        "3521      1\n",

        "883       2\n",

        "3627      2\n",

        "2106      2\n",

        "Name: Sex, dtype: int64"

      ]

    },

    "metadata": {},

    "execution_count": 43

  }

],

{

  "cell_type": "code",

  "source": [

    "Y_Test.head()"

  ],

  "metadata": {

    "colab": {
```

```
    "base_uri": "https://localhost:8080/",
  },
  "id": "tdTeKYrvln-L",
  "outputId": "3c1f9ad9-6922-4664-d397-35241381809b"
},
"execution_count": 44,
"outputs": [
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
        "668      2\n",
        "1580     1\n",
        "3784     2\n",
        "463      1\n",
        "2615     2\n",
        "Name: Sex, dtype: int64"
      ]
    },
    },
    "metadata": {},
    "execution_count": 44
  }
]
},
{
```

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"source": [

    "# 11. Build the Model."

],

"metadata": {

    "id": "kdhKbQtalrZT"

}

},

{

    "cell_type": "code",

    "source": [

        "from sklearn.ensemble import RandomForestClassifier\n",

        "model = RandomForestClassifier(n_estimators=10,criterion='entropy')"

    ],

    "metadata": {

        "id": "QQH-8_qblv0y"

    },

    "execution_count": 45,

    "outputs": []

},

{

    "cell_type": "code",

    "source": [

        "model.fit(X_Train,Y_Train)"

    ],
```

```
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  "id": "M9d6vEe2Iz97",
  "outputId": "1f67483b-ca53-4cd6-b857-b7616e2c2162"
},
"execution_count": 46,
"outputs": [
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
        "RandomForestClassifier(criterion='entropy', n_estimators=10)"
      ]
    },
    "metadata": {},
    "execution_count": 46
  }
],
{
  "cell_type": "code",
  "source": [
    "y_predict = model.predict(X_Test)"
  ]
}
```

```
],  
  
  "metadata": {  
  
    "id": "GDV5c7pUI29k"  
  
  },  
  
  "execution_count": 47,  
  
  "outputs": []  
  
},  
  
{  
  
  "cell_type": "code",  
  
  "source": [  
  
    "y_predict_train = model.predict(X_Train)"  
  
  ],  
  
  "metadata": {  
  
    "id": "6UmAzT_I16Tq"  
  
  },  
  
  "execution_count": 48,  
  
  "outputs": []  
  
},  
  
{  
  
  "cell_type": "markdown",  
  
  "source": [  
  
    "# 12. Train the Model"  
  
  ],  
  
  "metadata": {  
  
    "id": "J7B20vD9I9Cc"
```

```

    }

},

{

    "cell_type": "code",

    "source": [

        "from sklearn.metrics import
accuracy_score,confusion_matrix,classification_report\n",

        "print('Training accuracy: ',accuracy_score(Y_Train,y_predict_train))"

    ],

    "metadata": {

        "colab": {

            "base_uri": "https://localhost:8080/"

        },

        "id": "WWbdqXCTI-aj",

        "outputId": "d4b2099f-f23c-46fb-b1b4-831581c61af5"

    },

    "execution_count": 49,

    "outputs": [

        {

            "output_type": "stream",

            "name": "stdout",

            "text": [

                "Training accuracy:  0.98263992816522\n"

            ]

        }

    ]
}

```

```
]
},
{
  "cell_type": "markdown",
  "source": [
    "# 13. Test the Model"
  ],
  "metadata": {
    "id": "IFfWaxhmmIxx"
  }
},
{
  "cell_type": "code",
  "source": [
    "print('Testing accuracy: ',accuracy_score(Y_Test,y_predict))"
  ],
  "metadata": {
    "colab": {
      "base_uri": "https://localhost:8080/"
    },
    "id": "amvP11L6mKsU",
    "outputId": "698e889a-0702-4dbf-8177-224661f099b7"
  },
  "execution_count": 50,
  "outputs": [
```



```
{
  "output_type": "stream",
  "name": "stdout",
  "text": [
    "Testing accuracy:  0.5251196172248804\n"
  ]
}

],
{
  "cell_type": "markdown",
  "source": [
    "# 14. Measure the performance using Metrics."
  ],
  "metadata": {
    "id": "y1szd9HDmW-k"
  }
},
{
  "cell_type": "code",
  "source": [
    "pd.crosstab(Y_Test,y_predict)"
  ],
  "metadata": {
    "colab": {
```

```

    "base_uri": "https://localhost:8080/",
    "height": 175
  },
  "id": "w2sxE-4LmZuC",
  "outputId": "eb2d2e1b-5ff7-40e6-8b10-4949496cf43b"
},
"execution_count": 51,
"outputs": [
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
        "col_0    0    1    2\n",
        "Sex                \n",
        "0        121   29   99\n",
        "1         40  212   39\n",
        "2         126   64  106"
      ],
      "text/html": [
        "\n",
        " <div id=\"df-664147cc-82ef-44da-ae25-4dd33f796165\">\n",
        "   <div class=\"colab-df-container\">\n",
        "     <div>\n",
        " <style scoped>\n",
        "   .dataframe tbody tr th:only-of-type {\n",

```

```

"          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",

"<table border=\"1\" class=\"dataframe\">\n",

"  <thead>\n",

"    <tr style=\"text-align: right;\">\n",

"      <th>col_0</th>\n",

"      <th>0</th>\n",

"      <th>1</th>\n",

"      <th>2</th>\n",

"    </tr>\n",

"    <tr>\n",

"      <th>Sex</th>\n",

"      <th></th>\n",

"      <th></th>\n",

"      <th></th>\n",

"    </tr>\n",

```

```
" </thead>\n",
" <tbody>\n",
"   <tr>\n",
"     <th>0</th>\n",
"     <td>121</td>\n",
"     <td>29</td>\n",
"     <td>99</td>\n",
"   </tr>\n",
"   <tr>\n",
"     <th>1</th>\n",
"     <td>40</td>\n",
"     <td>212</td>\n",
"     <td>39</td>\n",
"   </tr>\n",
"   <tr>\n",
"     <th>2</th>\n",
"     <td>126</td>\n",
"     <td>64</td>\n",
"     <td>106</td>\n",
"   </tr>\n",
" </tbody>\n",
"</table>\n",
"</div>\n",
"   <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-664147cc-82ef-44da-ae25-4dd33f796165')\">\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-.94-2.06-
.94 2.06-2.06.94zm-11 1l8.5 8.5l.94-2.06 2.06-.94-2.06-.94l8.5 2.5l-.94 2.06-2.06.94zm10
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-
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 0-2.86z\"M5.41 20l4 18.59l7.72-7.72 1.47 1.35l5.41 20z\"/>\\n\",

"    </svg>\\n\",

"    </button>\\n\",

"    \\n\",

"    <style>\\n\",

"        .colab-df-container {\\n\",

"            display:flex;\\n\",

"            flex-wrap:wrap;\\n\",

"            gap: 12px;\\n\",

"        }\\n\",

"\\n\",

"        .colab-df-convert {\\n\",

"            background-color: #E8F0FE;\\n\",

"            border: none;\\n\",

```

```
"      border-radius: 50%;\n",  
"  
"      cursor: pointer;\n",  
"  
"      display: none;\n",  
"  
"      fill: #1967D2;\n",  
"  
"      height: 32px;\n",  
"  
"      padding: 0 0 0 0;\n",  
"  
"      width: 32px;\n",  
"  
"    }\n",  
"  
"\n",  
"  
"      .colab-df-convert:hover {\n",  
"  
"        background-color: #E2EBFA;\n",  
"  
"        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px 1px 3px 1px  
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-664147cc-82ef-44da-ae25-4dd33f796165 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-664147cc-82ef-44da-ae25-4dd33f796165');\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",
        "        await google.colab.output.renderOutput(dataTable,\n",
element);\n",
        "        const docLink = document.createElement('div');\n",
        "        docLink.innerHTML = docLinkHtml;\n",
        "        element.appendChild(docLink);\n",
        "    }\n",
        "</script>\n",
        "</div>\n",
        "</div>\n",
        " "
    ]
},
"metadata": {},
"execution_count": 51
}
]
},
{
    "cell_type": "code",
    "source": [
        "print(classification_report(Y_Test,y_predict))"
    ],
    "metadata": {
        "colab": {

```



```
"base_uri": "https://localhost:8080/"

},

"id": "9K0Y6CAimeMI",

"outputId": "7d50fe4e-99a4-4ba1-e924-86acc7b67573"

},

"execution_count": 52,

"outputs": [

  {

    "output_type": "stream",

    "name": "stdout",

    "text": [

      "          precision    recall  f1-score   support\n",

      "\n",

      "         0        0.42        0.49        0.45        249\n",

      "         1        0.70        0.73        0.71        291\n",

      "         2        0.43        0.36        0.39        296\n",

      "\n",

      "    accuracy                0.53        836\n",

      "   macro avg         0.52        0.52        0.52        836\n",

      "weighted avg         0.52        0.53        0.52        836\n",

      "\n"

    ]

  }

]
```

]

}