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   },
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    "**Problem Statement:** Abalone Age Prediction\n",
    "\n",
    "**Description :**\n",
    "Predicting the age of abalone from physical measurements. The age of abalone is determined by cutting the shell through the cone, staining it, and counting the number of rings through a microscope -- a boring and time-consuming task. Other measurements, which are easier to obtain, are used to predict age. Further information, such as weather patterns and location (hence food availability) may be required to solve the problem.\n",
    "\n",
    "**Importing Modules**\n",
    "\n"
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    "import seaborn as sns\n",
    "import matplotlib.pyplot as plt\n",
    "import numpy as np"
   ]
  },
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```

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2dc2f2f6caef\" name=\"files[]\" multiple disabled\n",
        "           style=\"border:none\" />\n",
        "       <output id=\"result-17d0ed20-f578-4a79-8d80-
2dc2f2f6caef\">\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);\n",
        "  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",
"   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> "
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    "<IPython.core.display.HTML object>"
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  },
  {
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   "output_type": "stream",
   "text": [
    "Saving abalone.csv to abalone (1).csv\n"
   ]
  }
 ],
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  "from google.colab import files\n",
  "\n",
  "uploaded = files.upload()\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",
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       "      <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",
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       "      <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",
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       "      <td>0.2255</td>\n",
       "      <td>0.0995</td>\n",
       "      <td>0.0485</td>\n",
       "      <td>0.070</td>\n",
       "      <td>7</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>\n",
    "          <td>0.210</td>\n",
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    "          <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>"
   ],
   "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  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  "
```

```
      ]
    },
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    "metadata": {},
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   }
  ],
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   "data=pd.read_csv(\"abalone.csv\")\n",
   "data.head()"
  ]
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   },
   "id": "_6YiRXoujWqv",
   "outputId": "b56c5699-323e-4440-ce58-c771995f3ce0"
  },
  "outputs": [
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    "data": {
     "text/plain": [
      "(4177, 9)"
     ]
    },
    "execution_count": 7,
    "metadata": {},
    "output_type": "execute_result"
   }
  ],
  "source": [
   "data.shape"
  ]
 },
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  "cell_type": "markdown",
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   "One additional task is that, we have to add the \"Age\" column using
\"Rings\" data. We just have to add '1.5' to the ring data"
  ]
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   "outputId": "6f1dea96-3ec9-4182-9da5-286157501ba9"
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  "outputs": [
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```

```
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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",
          "      <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",
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          "    </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>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>\n",
            "            <td>0.210</td>\n",
            "            <td>10.5</td>\n",
            "        </tr>\n",
            "        <tr>\n",
            "            <th>3</th>\n",
            "            <td>M</td>\n",
            "            <td>0.440</td>\n",
            "            <td>0.365</td>\n",
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            "            <td>0.5160</td>\n",
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            "            <td>0.1140</td>\n",
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            "            <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>8.5</td>\n",
            "        </tr>\n",
            "    </tbody>\n",
            "</table>\n",
            "</div>"
          ],
          "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  "
          ]
        },
        "execution_count": 4,
        "metadata": {},
        "output_type": "execute_result"
      }
```

```json
    ],
    "source": [
     "Age=1.5+data.Rings\n",
     "data[\"Age\"]=Age\n",
     "data=data.rename(columns = {'Whole weight':'Whole_weight','Shucked
weight': 'Shucked_weight','Viscera weight': 'Viscera_weight',\n",
     "                                'Shell weight': 'Shell_weight'})\n",
     "data=data.drop(columns=[\"Rings\"],axis=1)\n",
     "data.head()"
    ]
   },
   {
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    "metadata": {
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    },
    "source": [
     "3. Perform Below Visualizations.\n",
     "\n",
     "\n",
     "(i) Univariate Analysis\n",
     "\n",
     "\n",
     "#\n",
     "The term univariate analysis refers to the analysis of one variable.
You can remember this because the prefix "uni" means "one." \n",
     "\n",
     "There are three common ways to perform univariate analysis on one
variable: 1. Summary statistics – Measures the center and spread of
values.\n",
     "\n",
     "#\n",
     "\n",
     "\n",
     "Histogram"
    ]
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```

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"\n",
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href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
"            + ' to learn more about interactive tables.';\n",
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.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-.94-.94-2.06-.94
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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-
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"\n",
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table notebook</a>'\n",
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"       width: 32px;\n",
"     }\n",
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"       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",
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"       fill: #D2E3FC;\n",
"     }\n",
"\n",
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"\n",
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"         const dataTable =\n",
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"                                                   [key],
{});\n",
"         if (!dataTable) return;\n",
"\n",
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"           '<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",
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"  </div>\n",
"  "
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\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",
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   "\n",
   "data.head()"
  ]
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      "1    2\n",
      "2    0\n",
      "3    2\n",
      "4    1\n",
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 },
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        "    }\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>Shucked_weight</th>\n",
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        "      <td>0.150</td>\n",
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        "      <td>0.265</td>\n",
        "      <td>0.090</td>\n",
```

```
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"        <td>0.070</td>\n",
"        <td>8.5</td>\n",
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"        <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",
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714b8be4cb31')\"\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 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-
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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",
"  </svg>\n",
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```
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"      fill: #174EA6;\n",
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"      filter: drop-shadow(0px 1px 2px rgba(0, 0, 0, 0.3));\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-6a438a4e-59a6-413a-ab4a-714b8be4cb31');\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,
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Viscera_weight  \\\n",
        "0   0.455     0.365   0.095        0.5140          0.2245
0.1010   \n",
        "1   0.350     0.265   0.090        0.2255          0.0995
0.0485   \n",
        "2   0.530     0.420   0.135        0.6770          0.2565
0.1415   \n",
        "3   0.440     0.365   0.125        0.5160          0.2155
0.1140   \n",
        "4   0.330     0.255   0.080        0.2050          0.0895
0.0395   \n",
        "\n",
        "   Shell_weight   Age  \n",
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        "1         0.070   8.5  \n",
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        "        vertical-align: top;\n",
        "    }\n",
        "\n",
        "    .dataframe thead th {\n",
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        "    }\n",
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"                title=\"Convert this dataframe to an interactive
table.\"\n",
"                style=\"display:none;\">\n",
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"  <svg xmlns=\"http://www.w3.org/2000/svg\"
height=\"24px\"viewBox=\"0 0 24 24\"\n",
"        width=\"24px\">\n",
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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-.5l7.78-7.78 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",
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"      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",
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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-13ff2e1d-
0dae-459c-85b0-90b6f32bda9c');\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",
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    "    "
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table notebook</a>'\n",
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  }
 ],
 "source": [
  "X_Test.head()"
 ]
},
{
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 "execution_count": 39,
 "metadata": {
  "colab": {
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  },
  "id": "w_52rRhume0D",
  "outputId": "311e6ce9-7e12-488c-a79e-0923a763fd77"
 },
 "outputs": [
  {
   "data": {
    "text/plain": [
     "3141    1\n",
     "3521    1\n",
     "883     2\n",
     "3627    2\n",
     "2106    2\n",
     "Name: Sex, dtype: int64"
    ]
   },
   "execution_count": 39,
   "metadata": {},
   "output_type": "execute_result"
```

```json
    }
   ],
   "source": [
    "\n",
    "Y_Train.head()"
   ]
  },
  {
   "cell_type": "markdown",
   "metadata": {
    "id": "2SbcpTInmg9M"
   },
   "source": [
    "11. Build the Model"
   ]
  },
  {
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   "execution_count": 40,
   "metadata": {
    "id": "W9GX61jwmjNT"
   },
   "outputs": [],
   "source": [
    "from sklearn.ensemble import RandomForestClassifier\n",
    "model = RandomForestClassifier(n_estimators=10,criterion='entropy')"
   ]
  },
  {
   "cell_type": "code",
   "execution_count": 42,
   "metadata": {
    "colab": {
     "base_uri": "https://localhost:8080/"
    },
    "id": "TvuMbfVCml38",
    "outputId": "33283057-8ecb-4729-920b-74859fbf8e59"
   },
   "outputs": [
    {
     "data": {
      "text/plain": [
       "RandomForestClassifier(criterion='entropy', n_estimators=10)"
      ]
     },
     "execution_count": 42,
     "metadata": {},
     "output_type": "execute_result"
    }
   ],
   "source": [
    "model.fit(X_Train,Y_Train)"
   ]
  },
  {
   "cell_type": "code",
   "execution_count": 44,
   "metadata": {
    "id": "1xdm1Rx8mn5U"
   },
   "outputs": [],
```

```json
    "source": [
     "y_predict = model.predict(X_Test)\n"
    ]
   },
   {
    "cell_type": "code",
    "execution_count": 45,
    "metadata": {
     "id": "ZzU_bBnVmp2x"
    },
    "outputs": [],
    "source": [
     "y_predict_train = model.predict(X_Train)"
    ]
   },
   {
    "cell_type": "markdown",
    "metadata": {
     "id": "nRJnhGexmshz"
    },
    "source": [
     "12. Train the Model\n"
    ]
   },
   {
    "cell_type": "code",
    "execution_count": 46,
    "metadata": {
     "id": "Lez-qQp_muMS"
    },
    "outputs": [],
    "source": [
     "from sklearn.metrics import
accuracy_score,confusion_matrix,classification_report"
    ]
   },
   {
    "cell_type": "code",
    "execution_count": 48,
    "metadata": {
     "colab": {
      "base_uri": "https://localhost:8080/"
     },
     "id": "swdT5yVcmwb6",
     "outputId": "8351df88-0405-4754-a2f8-ac22ef341e57"
    },
    "outputs": [
     {
      "name": "stdout",
      "output_type": "stream",
      "text": [
       "Training accuracy:  0.980544747081712\n"
      ]
     }
    ],
    "source": [
     "print('Training accuracy:
',accuracy_score(Y_Train,y_predict_train))\n"
    ]
   },
   {
```

```
  "cell_type": "markdown",
  "metadata": {
   "id": "M_ZOjlyBmzuz"
  },
  "source": [
   "13.Test the Model"
  ]
 },
 {
  "cell_type": "code",
  "execution_count": 47,
  "metadata": {
   "colab": {
    "base_uri": "https://localhost:8080/"
   },
   "id": "xAgZMYeKm2fl",
   "outputId": "0a3e387d-aa79-4401-ccfe-56c2baac9a74"
  },
  "outputs": [
   {
    "name": "stdout",
    "output_type": "stream",
    "text": [
     "Testing accuracy:  0.5358851674641149\n"
    ]
   }
  ],
  "source": [
   "\n",
   "print('Testing accuracy: ',accuracy_score(Y_Test,y_predict))"
  ]
 },
 {
  "cell_type": "markdown",
  "metadata": {
   "id": "oWdHckhGm6sG"
  },
  "source": [
   "14. Measure the performance using Metrics"
  ]
 },
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  "execution_count": 49,
  "metadata": {
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    "height": 175
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   "outputId": "40b381a3-8628-4c1a-a733-dc9ef2b2a07f"
  },
  "outputs": [
   {
    "data": {
     "text/html": [
      "\n",
      "  <div id=\"df-98bf161e-1ebe-4f89-bd09-17a005ed45f1\">\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",
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"      <td>117</td>\n",
"      <td>31</td>\n",
"      <td>101</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>1</th>\n",
"      <td>37</td>\n",
"      <td>215</td>\n",
"      <td>39</td>\n",
"    </tr>\n",
"    <tr>\n",
"      <th>2</th>\n",
"      <td>125</td>\n",
"      <td>55</td>\n",
"      <td>116</td>\n",
"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"</div>\n",
"        <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-98bf161e-1ebe-4f89-bd09-
17a005ed45f1')\"\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.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78 2.81-2.81c.8-
.78.8-2.07 0-2.86M5.41 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-98bf161e-1ebe-4f89-bd09-
17a005ed45f1 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-98bf161e-
1ebe-4f89-bd09-17a005ed45f1');\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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             "col_0    0    1    2\n",
             "Sex                 \n",
             "0      117   31  101\n",
             "1       37  215   39\n",
             "2      125   55  116"
            ]
           },
           "execution_count": 49,
           "metadata": {},
           "output_type": "execute_result"
          }
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        ]
       },
       {
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        "execution_count": 50,
        "metadata": {
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         },
         "id": "-xbpGpoVm-B2",
         "outputId": "453a2b46-3192-4800-a065-c2ca0cae57d0"
        },
        "outputs": [
         {
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          "output_type": "stream",
          "text": [
           "              precision    recall  f1-score   support\n",
           "\n",
           "           0       0.42      0.47      0.44       249\n",
           "           1       0.71      0.74      0.73       291\n",
           "           2       0.45      0.39      0.42       296\n",
```

```json
      "\n",
      "    accuracy                           0.54       836\n",
      "   macro avg       0.53      0.53      0.53       836\n",
      "weighted avg       0.53      0.54      0.53       836\n",
      "\n"
     ]
    }
   ],
   "source": [
    "\n",
    "print(classification_report(Y_Test,y_predict))"
   ]
  }
 ],
 "metadata": {
  "colab": {
   "provenance": []
  },
  "kernelspec": {
   "display_name": "Python 3 (ipykernel)",
   "language": "python",
   "name": "python3"
  },
  "language_info": {
   "codemirror_mode": {
    "name": "ipython",
    "version": 3
   },
   "file_extension": ".py",
   "mimetype": "text/x-python",
   "name": "python",
   "nbconvert_exporter": "python",
   "pygments_lexer": "ipython3",
   "version": "3.9.12"
  }
 },
 "nbformat": 4,
 "nbformat_minor": 1
}
```