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_decorators.py:36: FutureWarning: Pass the following variable as a keyword arg:
x. From version 0.12, the only valid positional argument will be `data`, and
passing other arguments without an explicit keyword will result in an error or
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        "   .dataframe thead 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",
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"        <td>0.5140</td>\n",
"        <td>0.2245</td>\n",
"        <td>0.1010</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",
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```

```
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       "         <td>0.3425</td>\n",
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       "\n",
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       "4         0.055       7  "
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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>Rings</th>\n",
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       "      <td>0.2050</td>\n",
       "      <td>0.0895</td>\n",
       "      <td>0.0395</td>\n",
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       "    </tr>\n",
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      ],
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       "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   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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   "x.head()"
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weight',\n",
      "       'Viscera weight', 'Shell weight', 'Rings'],\n",
      "      dtype='object')"
     ]
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    "output_type": "execute_result"
   }
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   "names"
  ]
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  "outputs": [],
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 ]
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 "metadata": {},
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},
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     "        -0.63821689,  1.57154357],\n",
     "       [-1.44898585, -1.439929  , -1.18397831, ..., -1.20522124,\n",
     "        -1.21298732, -0.91001299],\n",
     "       [ 0.05003309,  0.12213032, -0.10799087, ..., -0.35668983,\n",
     "        -0.20713907, -0.28962385],\n",
     "       ...,\n",
     "       [ 0.6329849 ,  0.67640943,  1.56576738, ...,  0.97541324,\n",
     "         0.49695471, -0.28962385],\n",
     "       [ 0.84118198,  0.77718745,  0.25067161, ...,  0.73362741,\n",
     "         0.41073914,  0.02057072],\n",
     "       [ 1.54905203,  1.48263359,  1.32665906, ...,  1.78744868,\n",
     "         1.84048058,  0.64095986]])"
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  "from sklearn.model_selection import train_test_split\n",
  "x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.2)"
 ]
```

```
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```

```
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       "output_type": "stream",
       "text": [
        "(3341, 8) (836, 8)\n"
       ]
      }
     ],
     "source": [
      "print(x_train.shape,x_test.shape)"
     ]
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     ]
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       "data": {
        "text/plain": [
         "RandomForestClassifier(criterion='entropy', n_estimators=10)"
        ]
       },
       "execution_count": 23,
       "metadata": {},
       "output_type": "execute_result"
      }
     ],
```

```
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    "from sklearn.ensemble import RandomForestClassifier\n",
    "model = RandomForestClassifier(n_estimators=10,criterion='entropy')\n",
    "model.fit(x_train,y_train)"
   ]
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   "id": "a8332478",
   "metadata": {},
   "source": [
    "# 12. Train the Model"
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     "output_type": "stream",
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      "Training accuracy:  0.9850344208320863\n"
     ]
    }
   ],
   "source": [
    "from sklearn.metrics import
accuracy_score,confusion_matrix,classification_report\n",
    "print('Training accuracy: ',accuracy_score(y_train,y_predict_train))"
   ]
  },
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   ]
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  {
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