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0.2245  \\n",
          "1      M    0.350    0.265    0.090    0.2255
0.0995  \\n",
          "2      F    0.530    0.420    0.135    0.6770
0.2565  \\n",
          "3      M    0.440    0.365    0.125    0.5160
0.2155  \\n",
          "4      I    0.330    0.255    0.080    0.2050
0.0895  \\n",
          "...    ..    ...    ...    ...    ...
...  \\n",

```

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0.4390	\n",	"4173	M	0.590	0.440	0.135	0.9660
0.5255	\n",	"4174	M	0.600	0.475	0.205	1.1760
0.5310	\n",	"4175	F	0.625	0.485	0.150	1.0945
0.9455	\n",	"4176	M	0.710	0.555	0.195	1.9485

```

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"3          0.1140      0.1550      10  \n",
"4          0.0395      0.0550       7  \n",
"...          ...          ...      ...  \n",
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  "      }\n",
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  "      <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",
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.94-2.06-.94 2.06-2.06.94z\">\n",
"        <path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-.92-
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.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 0-2.86z\">\n",
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20z\">\n",
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"        const dataTable =\n",

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        "                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",
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        "                dataTable['output_type'] = 'display_data';\n",
        "                await google.colab.output.renderOutput(dataTable,
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" 2      Diameter     4177 non-null   float64\n",
" 3      Height       4177 non-null   float64\n",
" 4      Whole weight  4177 non-null   float64\n",
" 5      Shucked weight 4177 non-null   float64\n",
" 6      Viscera weight 4177 non-null   float64\n",
" 7      Shell weight  4177 non-null   float64\n",
" 8      Rings        4177 non-null   int64  \n",
"dtypes: float64(7), int64(1), object(1)\n",
"memory usage: 293.8+ KB\n"
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}
]
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Shucked weight  \\\n",
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4177.000000      \n",
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0.359367      \n",
          "std          0.120093         0.099240         0.041827         0.490389
0.221963      \n",
          "min          0.075000         0.055000         0.000000         0.002000
0.001000      \n",
          "25%          0.450000         0.350000         0.115000         0.441500
0.186000      \n",
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0.336000      \n",
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1.488000      \n",

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[illegible]

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"          <td>0.490389</td>\n",
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"          <td>3.224169</td>\n",
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```


```

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"        border: none;\n",
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"        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-9f008801-5118-4a5a-
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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-
9f008801-5118-4a5a-bdc4-b2d45f113ff7');\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",
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document.createElement('div');\n",
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        "            "
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  "execution_count": 8
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    "outputId": "88e4bae1-ef4e-43cb-c12f-4ff0d736c6c9"
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  "execution_count": 10,
  "outputs": [
    {
      "output_type": "execute_result",

```

```

    "data": {
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        "Length            0.075\n",
        "Diameter            0.055\n",
        "Height              0.0\n",
        "Whole weight        0.002\n",
        "Shucked weight      0.001\n",
        "Viscera weight      0.0005\n",
        "Shell weight        0.0015\n",
        "Rings                1\n",
        "dtype: object"
      ]
    },
    "metadata": {},
    "execution_count": 10
  }
]
},
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    },
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    "outputId": "56f37024-e348-4494-ed31-0eb59ce6cf88"
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  "execution_count": 11,
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      "data": {
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          "Length            0.815\n",
          "Diameter            0.65\n",
          "Height              1.13\n",
          "Whole weight        2.8255\n",
          "Shucked weight      1.488\n",
          "Viscera weight      0.76\n",
          "Shell weight        1.005\n",
          "Rings                29\n",
          "dtype: object"
        ]
      },
      "metadata": {},
      "execution_count": 11
    }
  ]
}
],
},

```

```

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    },
    "id": "N-bvb73uWroo",
    "outputId": "3a104b2d-99bd-4593-dfdc-ca2ea8f26d4d"
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      "data": {
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          "Length       4177\n",
          "Diameter      4177\n",
          "Height        4177\n",
          "Whole weight  4177\n",
          "Shucked weight 4177\n",
          "Viscera weight 4177\n",
          "Shell weight  4177\n",
          "Rings         4177\n",
          "dtype: int64"
        ]
      },
      "metadata": {},
      "execution_count": 65
    }
  ]
},
{
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    "print(df.size)"
  ],
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  },
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      "name": "stdout",
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```



```

        "(4177, 9)\n",
        "37593\n"
    ]
}
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packages/ipykernel_launcher.py:1: FutureWarning: Dropping of nuisance
columns in DataFrame reductions (with 'numeric_only=None') is deprecated;
in a future version this will raise TypeError.  Select only valid columns
before calling the reduction.\n",
                "\n\nEntry point for launching an IPython kernel.\n"
            ]
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                    "Diameter        0.407881\n",
                    "Height          0.139516\n",
                    "Whole weight    0.828742\n",
                    "Shucked weight  0.359367\n",
                    "Viscera weight  0.180594\n",
                    "Shell weight    0.238831\n",
                    "Rings           9.933684\n",
                    "dtype: float64"
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            },
            "metadata": {},
            "execution_count": 67
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    ]
},
{
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```

```

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  "outputId": "f6aecdfc-05ee-46c2-c283-10af56c7e816"
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packages/ipykernel_launcher.py:1: FutureWarning: Dropping of nuisance
columns in DataFrame reductions (with 'numeric_only=None') is deprecated;
in a future version this will raise TypeError.  Select only valid columns
before calling the reduction.\n",
      "  \"\"\"Entry point for launching an IPython kernel.\n"
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        "Height           0.1400\n",
        "Whole weight     0.7995\n",
        "Shucked weight   0.3360\n",
        "Viscera weight   0.1710\n",
        "Shell weight     0.2340\n",
        "Rings            9.0000\n",
        "dtype: float64"
      ]
    },
    "metadata": {},
    "execution_count": 68
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```

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packages/ipykernel_launcher.py:1: FutureWarning: Dropping of nuisance
columns in DataFrame reductions (with 'numeric_only=None') is deprecated;
in a future version this will raise TypeError. Select only valid columns
before calling the reduction.\n",
        "  \"\\\"\\\"Entry point for launching an IPython kernel.\n"
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          "Diameter         0.099240\n",
          "Height            0.041827\n",
          "Whole weight      0.490389\n",
          "Shucked weight    0.221963\n",
          "Viscera weight    0.109614\n",
          "Shell weight      0.139203\n",
          "Rings             3.224169\n",
          "dtype: float64"
        ]
      },
      "metadata": {},
      "execution_count": 69
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  ]
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{
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  },
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      "data": {
        "text/plain": [

```

	Sex	Length	Diameter	Height	Whole weight	Shucked weight
Viscera weight		Shell weight	Rings			
0.0215	"F"	0.275	0.195	0.070	0.0800	0.0310
0.0600	"M"	0.400	0.320	0.095	0.3030	0.1335
0.0905	"	0.405	0.305	0.120	0.3185	0.1235
0.0915	"	0.1100	0.310	0.100	0.3850	0.1730
0.0690	"	0.410	0.300	0.100	0.3010	0.1240
	"	0.0900	9	1		

0.0185	"I"	0.250	0.185	0.065	0.0710	0.0270
0.0115	"	0.0225	5	1	0.0765	0.0360
0.0150	"	0.0245	6	1	0.0835	0.0390
0.0215	"	0.0250	5	1	0.0830	0.0310
0.5745	"M"	0.255	0.180	0.055	2.5480	1.1945
	"M"	0.780	0.600	0.210		
	"	0.6745	11	1		

```

    "Length: 4177, dtype: int64"
  ]
},
"metadata": {},
"execution_count": 70
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]
},
{
  "cell_type": "code",
  "source": [
    "df.isnull().sum()"
  ],
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      "base_uri": "https://localhost:8080/"
    },
    "id": "QpLpoGpOLEfE",
    "outputId": "4fcf4c09-9142-4727-eab1-61747dc1dcfe"
  },
  "execution_count": 71,
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      "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",
        "Rings              0\n",
        "dtype: int64"
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},
"metadata": {},
"execution_count": 71
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{
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        "categorical_col = ['Sex','Rings']\n"
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    "execution_count": 74,
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{
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        "df.boxplot(numeric_col)"
    ],
    "metadata": {
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            "height": 282
        },
        "id": "L9D1ZqYQmxb",
        "outputId": "7d0b73e0-4c87-4b84-f2ab-bd619513260f"
    },
    "execution_count": 75,
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            "data": {
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                ]
            },
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            "data": {
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```

] ,

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            " ['F' 0.53 0.42 ... 0.2565 0.1415 0.21]\n",
            " ... \n",
            " ['M' 0.6 0.475 ... 0.5255 0.2875 0.308]\n",
            " ['F' 0.625 0.485 ... 0.531 0.261 0.296]\n",
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    "features_scores.sort_values(by = 'Score')"
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          "    <div class=\"colab-df-container\">\n",
          "      <div>\n"
        ]
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```

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"      <th>3</th>\n",

```

```

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"         <td>515.350640</td>\n",
"     </tr>\n",
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"         <th>7</th>\n",
"         <td>Rings</td>\n",
"         <td>4370.043236</td>\n",
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da707d296521')\">\n",
"         title=\"Convert this dataframe to an
interactive table.\">\n",
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height=\"24px\" viewBox=\"0 0 24 24\">\n",
"         width=\"24px\">\n",
"         <path d=\"M0 0h24v24H0V0z\" fill=\"none\"/>\n",
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.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.51.94-2.06 2.06-.94-2.06-
.94L8.5 2.51-.94 2.06-2.06.94zm10 10L1.94 2.06.94-2.06-.94-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.961-1.37-1.37c-.4-.4-.92-
.59-1.43-.59-.52 0-1.04.2-1.43.59L10.3 9.451-7.72 7.72c-.78.78-.78 2.05 0
2.83L4 21.41c.39.39.95 1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78 2.81-
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google.colab.kernel.invokeFunction('convertToInteractive',\n",
        [key],
        {});\n",
        if (!dataTable) return;\n",
        "\n",
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' +\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",
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of y to (n_samples, ), for example using ravel().\n",
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            "/usr/local/lib/python3.7/dist-
packages/sklearn/linear_model/_logistic.py:818: ConvergenceWarning: lbfgs
failed to converge (status=1):\n",
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            "\n",
            "Increase the number of iterations (max_iter) or scale the
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            "    https://scikit-
learn.org/stable/modules/preprocessing.html\n",
            "Please also refer to the documentation for alternative solver
options:\n",
            "    https://scikit-
learn.org/stable/modules/linear_model.html#logistic-regression\n",
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```

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        "463       0.0215      0.0545\n",
        "2615      0.6735      1.5105\n",
        "...      ...      ... \n",
        "1670      0.6025      1.2405\n",
        "3055      0.4690      1.0890\n",
        "3366      0.0350      0.0905\n",
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10  8  9 10\n",
        "  9  7  9  7  7 10  8  8  6  7  7  7 10  9 10  8  7 10 11 10
9 11  9 11\n",
        " 10  9  9  8  9  9 10  8  9  6  7 10  9  8  9 11  6  7  9  9
8  8  9  6\n",
        "  8  7 10 11 10  8 10  9  6 10  8  7  7 10 11 11  9  9 10 11
10 10  6  9\n",
        "  7  9  7  8 10 10 10 11  7 10 10  8  9 10 10 10  9  9  7 10
8  8  7  9\n",
        " 10  9  7  8  8  7  8 11  7 10  7  7  9  7 10  7  9  6  9 10
6 10  7  6\n",
        "  9  9  9  6  8 10 10  9  6  8  7  9  9  9  9 10  9  9  8
6  8 10  8\n",
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        "print(\"Precision Score : \",metrics.precision_score(y_test,\n",
y_pred, pos_label='positive',average='micro'))\n",
        "print(\"Recall Score : \",metrics.recall_score(y_test,\n",
y_pred,pos_label='positive',average='micro'))\n",

```

```

    "print('CL Report:',metrics.classification_report(y_test, y_pred,
zero_division=1))"
  ],
  "metadata": {
    "colab": {
      "base_uri": "https://localhost:8080/"
    },
    "id": "wRLuS6qznPOZ",
    "outputId": "cale2e23-6235-4c4b-c044-07a89378ba3f"
  },
  "execution_count": 109,
  "outputs": [
    {
      "output_type": "stream",
      "name": "stdout",
      "text": [
        "Accuracy:  0.2727272727272727\n",
        "Precision Score :  0.2727272727272727\n",
        "Recall Score :  0.2727272727272727\n",
        "CL Report:
support\n",
        "\n",
        "          3          1.00          0.00          0.00          1\n",
        "          4          1.00          0.00          0.00          3\n",
        "          5          1.00          0.00          0.00         12\n",
        "          6          0.16          0.25          0.19         12\n",
        "          7          0.36          0.50          0.42         24\n",
        "          8          0.41          0.44          0.42         34\n",
        "          9          0.27          0.54          0.36         28\n",
        "         10          0.17          0.42          0.24         19\n",
        "         11          0.25          0.14          0.18         28\n",
        "         12          1.00          0.00          0.00         15\n",
        "         13          1.00          0.00          0.00          9\n",
        "         14          1.00          0.00          0.00          4\n",
        "         15          1.00          0.00          0.00          6\n",
        "         16          1.00          0.00          0.00          5\n",
        "         17          1.00          0.00          0.00          5\n",
        "         18          1.00          0.00          0.00          1\n",
        "         19          1.00          0.00          0.00          1\n",
        "         20          1.00          0.00          0.00          2\n",
        "\n",
        "      accuracy                                0.27         209\n",
        "      macro avg          0.76          0.13          0.10         209\n",
        "      weighted avg        0.51          0.27          0.22         209\n",
        "\n"
      ]
    },
    {
      "output_type": "stream",
      "name": "stderr",
      "text": [
        "/usr/local/lib/python3.7/dist-
packages/sklearn/metrics/_classification.py:1375: UserWarning: Note that
pos_label (set to 'positive') is ignored when average != 'binary' (got

```

```
'micro')). You may use labels=[pos_label] to specify a single positive
class.\n",
    "    UserWarning,\n",
    "/usr/local/lib/python3.7/dist-
packages/sklearn/metrics/_classification.py:1375: UserWarning: Note that
pos_label (set to 'positive') is ignored when average != 'binary' (got
'micro'). You may use labels=[pos_label] to specify a single positive
class.\n",
    "    UserWarning,\n"
    ]
    }
    ]
    }
    ]
}
```