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.94L8.5 2.51-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-
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href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
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2  \\n",

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168	\n",	"mean	0.834146	122.000000	NaN	NaN
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front	NaN	...	\n",			
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NaN  \n",
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"      <th>engine-location</th>\n",
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"      <th>stroke</th>\n",
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.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-
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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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24.000000	16.000000 \n",	9.000000	95.000000	5200.000000
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"      style=\"display:none;\">\n",
"    </button>\n",
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.94-.94-2.06-.94 2.06-2.06.94zm-11 11l8.5 8.5l-8.5 8.5l-8.5-8.5l-8.5-8.5\"/>

```

```
.94L8.5 2.51-.94 2.06-2.06.94zm10 101.94 2.06.94-2.06 2.06-.94-2.06-.94-  
.94-2.06-.94 2.06-2.06.94z"/><path d="M17.41 7.961-1.37-1.37c-.4-.4-  
.92-.59-1.43-.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.39.39.9.59 1.41.59.51 0 1.02-.2 1.41-.5917.78-7.78  
2.81-2.81c.8-.78.8-2.07 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47 1.35L5.41  
20z"/>\n",
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" fill: #174EA6;\n",  
" }\n",  
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" }\n",  
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" }\n",  
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"\n",  
" async function convertToInteractive(key) {\n",
```

```

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        "            const dataTable =\n",
        "                await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "
[key], {});\n",
        "                if (!dataTable) return;\n",
        "                \n",
        "                const docLinkHtml = 'Like what you see? Visit
the ' +\n",
        "                    '<a target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
        "                    + ' to learn more about interactive
tables.';\n",
        "                    element.innerHTML = '';\n",
        "                    dataTable['output_type'] = 'display_data';\n",
        "                    await
google.colab.output.renderOutput(dataTable, element);\n",
        "                    const docLink =
document.createElement('div');\n",
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" 1   normalized-losses    164 non-null    float64\n",
" 2   make                 205 non-null    object  \n",
" 3   fuel-type            205 non-null    object  \n",
" 4   aspiration            205 non-null    object  \n",
" 5   num-of-doors         205 non-null    object  \n",
" 6   body-style           205 non-null    object  \n",
" 7   drive-wheels         205 non-null    object  \n"
]
}
]
}
}

```

```

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        " 9   wheel-base          205 non-null    float64\n",
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        "11   width                   205 non-null    float64\n",
        "12   height                  205 non-null    float64\n",
        "13   curb-weight            205 non-null    int64  \n",
        "14   engine-type             205 non-null    object \n",
        "15   num-of-cylinders        205 non-null    object \n",
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        "20   compression-ratio       205 non-null    float64\n",
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wheel-base, length, width, height, curb-weight, engine-type, num-of-
cylinders, engine-size, fuel-system, bore, stroke, compression-ratio,
horsepower, peak-rpm, city-mpg, highway-mpg, price]\n",
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    "      <th>aspiration</th>\n",
    "      <th>num-of-doors</th>\n",
    "      <th>body-style</th>\n",
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    "      <th>wheel-base</th>\n",
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    "      <th>fuel-system</th>\n",
    "      <th>bore</th>\n",
    "      <th>stroke</th>\n",
    "      <th>compression-ratio</th>\n",
    "      <th>horsepower</th>\n",
    "      <th>peak-rpm</th>\n",
    "      <th>city-mpg</th>\n",
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```

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.94-2.06.94 2.06-2.06.94zm-11 11l8.5 8.5l.94-2.06
.94-2.06.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06
.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 20L18.59l7.72-7.72 1.47 1.35L5.41
20z\"/>\n",
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"        height: 32px;\n",
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"    }\n",
"    \n",
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"    }\n",
"    \n",
"    [theme=dark] .colab-df-convert:hover {\n",

```

```

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0.3));\n",
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        "        buttonEl.style.display =\n",
        "            google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
        "        \n",
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e973519c-ca43-48ef-a5e7-3eec48963908');\n",
        "            const dataTable =\n",
        "                await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "            [key], {});\n",
        "            if (!dataTable) return;\n",
        "            \n",
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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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google.colab.output.renderOutput(dataTable, element);\n",
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document.createElement('div');\n",
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std      four  \n",
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std      four  \n",
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std      four  \n",
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... engine-size  \\\n",
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...      90  \n",
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...      122  \n",
...      "65      sedan      rwd      front      104.9
...      140  \n",

```



```

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"\n",
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peak-rpm  city-mpg  \\\n",
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5500.0    31      \n",
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5000.0    31      \n",
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4800.0    26      \n",
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href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
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"      <td>front</td>\n",
"      <td>96.1</td>\n",
"      <td>...</td>\n",
"      <td>132</td>\n",
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"      <td>3.46</td>\n",
"      <td>3.9</td>\n",
"      <td>8.7</td>\n",
"      <td>112.0</td>\n",
"      <td>NaN</td>\n",
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"      <td>31</td>\n",
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"    <tr>\n",
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"      <td>renault</td>\n",
"      <td>gas</td>\n",
"      <td>std</td>\n",
"      <td>two</td>\n",
"      <td>hatchback</td>\n",
"      <td>fwd</td>\n",

```

```

"        <td>front</td>\n",
"        <td>96.1</td>\n",
"        <td>...</td>\n",
"        <td>132</td>\n",
"        <td>mpfi</td>\n",
"        <td>3.46</td>\n",
"        <td>3.9</td>\n",
"        <td>8.7</td>\n",
"        <td>112.0</td>\n",
"        <td>NaN</td>\n",
"        <td>23</td>\n",
"        <td>31</td>\n",
"        <td>9895.0</td>\n",
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" </tbody>\n",
"</table>\n",
"<p>2 rows × 26 columns</p>\n",
"</div>\n",
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a98c8e3cf266')\">\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 2.51-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-
.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.39.39.95.59 1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78
2.81-2.81c.8-.78.8-2.07 0-2.86z\"M5.41 20L4 18.59l7.72-7.72 1.47 1.35L5.41
20z\"/>\n",
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"    </button>\n",
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"            flex-wrap: wrap;\n",
"            gap: 12px;\n",
"        }\n",
"    >\n",
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"        cursor: pointer;\n",
"        display: none;\n",
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"    }\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",
        "        [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-002f6a13-f7a2-48a8-
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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-
002f6a13-f7a2-48a8-8f0a-a98c8e3cf266');\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",
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        "    </div>

```

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four\n",
          "131    176.8   66.6    50.5           2460         ohc
four"
        ],
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          "      <div class=\"colab-df-container\">\n",
          "        <div>\n",
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          "              vertical-align: middle;\n",
          "            }\n",
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          "              vertical-align: top;\n",
          "            }\n",
          "            .dataframe thead th {\n",
          "              text-align: right;\n",
          "            }\n",
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          "            <thead>\n",
          "              <tr style=\"text-align: right;\">\n",
          "                <th></th>\n",
          "                <th>length</th>\n",

```

```

"      <th>width</th>\n",
"      <th>height</th>\n",
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"      <th>engine-type</th>\n",
"      <th>num-of-cylinders</th>\n",
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"      <td>66.5</td>\n",
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"      <td>2579</td>\n",
"      <td>ohc</td>\n",
"      <td>four</td>\n",
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"    <tr>\n",
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"      <td>176.8</td>\n",
"      <td>66.6</td>\n",
"      <td>50.5</td>\n",
"      <td>2460</td>\n",
"      <td>ohc</td>\n",
"      <td>four</td>\n",
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"  </tbody>\n",
"</table>\n",
"</div>\n",
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onclick=\"convertToInteractive('df-72647dc4-8fa3-43cd-bad3-6fed57dbf228')\">\n",
"      title=\"Convert this dataframe to an
interactive table.\">\n",
"      style=\"display:none;\">\n",
"    <svg xmlns=\"http://www.w3.org/2000/svg\"
height=\"24px\" viewBox=\"0 0 24 24\">\n",
"      width=\"24px\">\n",
"        <path d=\"M0 0h24v24H0V0z\" fill=\"none\"/>\n",
"        <path d=\"M18.56 5.44l.94 2.06.94-2.06.94-2.06-
.94-.94-2.06-.94 2.06-2.06.94zm-11 11L8.5 8.5l.94-2.06 2.06-.94-2.06-
.94L8.5 2.51-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06.94-2.06-.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 0-2.86z\"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",
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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",
"      .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",
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"      }\n",
"\n",
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"      }\n",
"\n",
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"        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",
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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-
72647dc4-8fa3-43cd-bad3-6fed57dbf228');\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",
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        "    </div>\\n",
        "    </div>\\n",
        "    "
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                    "length               -0.287325\\n",
                    "width                -0.219957\\n",
                    "height               -0.322272\\n",
                    "curb-weight          -0.266306\\n",
                    "engine-size          -0.244618\\n",
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```

```

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(data['aspiration'] == 'std') & (data['fuel-type'] == 'gas') &
(data['engine-type'] == 'ohc') & (data['num-of-cylinders'] == 'four')]"
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    ],
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    "outputs": []
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```

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aspiration num-of-doors  \\\n",
        "55          3          150.0  mazda      gas
std      two  \n",
        "56          3          150.0  mazda      gas
std      two  \n",
        "57          3          150.0  mazda      gas
std      two  \n",
        "58          3          150.0  mazda      gas
std      two  \n",
        "\n",
        "      body-style drive-wheels engine-location  wheel-base
... engine-size  \\\n",
        "55  hatchback      rwd      front      95.3
...      70  \n",
        "56  hatchback      rwd      front      95.3
...      70  \n",
        "57  hatchback      rwd      front      95.3
...      70  \n",
        "58  hatchback      rwd      front      95.3
...      80  \n",
        "\n",
        "      fuel-system  bore  stroke compression-ratio horsepower
peak-rpm city-mpg  \\\n",
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6000.0      17  \n",
        "56          4bbl  NaN    NaN          9.4      101.0
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"   }\n",
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"   .dataframe tbody tr th {\n",
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"   }\n",
"\n",
"   .dataframe thead th {\n",
"     text-align: right;\n",
"   }\n",
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"      <th>make</th>\n",
"      <th>fuel-type</th>\n",
"      <th>aspiration</th>\n",
"      <th>num-of-doors</th>\n",
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"      <th>...</th>\n",
"      <th>engine-size</th>\n",
"      <th>fuel-system</th>\n",
"      <th>bore</th>\n",
"      <th>stroke</th>\n",
"      <th>compression-ratio</th>\n",
"      <th>horsepower</th>\n",
"      <th>peak-rpm</th>\n",
"      <th>city-mpg</th>\n",
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"  </thead>\n",
"  <tbody>\n",
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"      <td>gas</td>\n",
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"      <td>front</td>\n",
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"      <td>...</td>\n",
"      <td>70</td>

```

```

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"    <td>3</td>\n",
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"    <td>gas</td>\n",
"    <td>std</td>\n",
"    <td>two</td>\n",
"    <td>hatchback</td>\n",
"    <td>rwd</td>\n",
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"    <td>gas</td>\n",
"    <td>std</td>\n",
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"    <td>rwd</td>\n",
"    <td>front</td>\n",
"    <td>95.3</td>\n",
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2.06-.94-2.06-.94L8.5 2.51-.94 2.06-2.06.94zm10 10l.94
2.06.94-2.06.94-2.06-.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 0-2.86z\"M5.41 20L4 18.59l7.72-7.72 1.47 1.35L5.41
20z\"/>\n",
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"    \n",
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"            const dataTable =\n",
"                await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
"            [key], {});\n",
"            if (!dataTable) return;\n",
"            \n",
"            const docLinkHtml = 'Like what you see? Visit
the ' +\n",
"                '<a target=\"_blank\"
href=https://colab.research.google.com/notebooks/data_table.ipynb>data
table notebook</a>'\n",
"                + ' to learn more about interactive
tables.';\n",
"            element.innerHTML = '';\n",

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        "            await
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        "            const docLink =
document.createElement('div');\n",
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two\n",
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two\n",
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two\n",
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.94L8.5 2.5l-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-
.94-2.06-.94 2.06-2.06.94z\"/><path d=\"M17.41 7.96l-1.37-1.37c-.4-.4-
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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
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1px 3px 1px rgba(60, 64, 67, 0.15);\n",
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```

```

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0.3));\n",
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    buttonEl.style.display =\n",
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'none';\n",
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    async function convertToInteractive(key) {\n",
    const element = document.querySelector('#df-
f00e10a4-f67e-4730-841b-8a52aacdd350');\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",
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    await
google.colab.output.renderOutput(dataTable, element);\n",
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```

"      <td>rwd</td>\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 2.51-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-
.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.39.39.95.59 1.41.59.51 0 1.02-.2 1.41-.59l7.78-7.78
2.81-2.81c.8-.78.8-2.07 0-2.86z\"M5.41 20L4 18.59l7.72-7.72 1.47 1.35L5.41
20z\"/>\n",
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```



```

        }\n",
        "\n",
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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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        "    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",
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        "    const buttonEl =\n",
        "        document.querySelector('#df-fece120b-b93a-4a5b-
ab7a-7bd9304482d0 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-
fece120b-b93a-4a5b-ab7a-7bd9304482d0');\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",
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        "                element.appendChild(docLink);\n",
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                    "width                0.182956\n",
                    "height               -0.056999\n",
                    "curb-weight          0.168929\n",
                    "engine-size          0.206675\n",
                    "bore                 -0.055909\n",
                    "stroke               1.000000\n",
                    "compression-ratio    0.186170\n",
                    "horsepower           0.092337\n",
                    "peak-rpm             -0.070322\n",
                    "city-mpg             -0.042906\n",
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                    "Name: stroke, dtype: float64"
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std  \n",
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std  \n",
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std  \n",
          "5              2              NaN              audi      gas
std  \n",
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std  \n",
          "9              0              NaN              audi      gas
turbo  \n",
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std  \n",
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std  \n",
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std  \n",
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std  \n",

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turbo \n",	"126	3	NaN	porsche	gas
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turbo \n",	"193	0	NaN	volkswagen	gas
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94.5	...	\n",					
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99.8	...	\n",					
		"7		four	wagon	fwd	front
105.8	...	\n",					
		"9		two	hatchback	4wd	front
99.5	...	\n",					
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95.9	...	\n",				
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96.1	...	\n",				
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94.5	...	\n",				
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100.4	...	\n",				
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100.4	...	\n",				
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ratio horsepower	\\n",					
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7.0	145.0 \n",				
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8.4	95.0 \n",				
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21.0	95.0 \n",				
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7.0	145.0 \n",				
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9.5	207.0 \n",				
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8.7	112.0 \n",				
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8.7	112.0 \n",				
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9.2	156.0 \n",				
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	"192	97	idi	3.01	3.40
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	"\n",				
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  "      }\n",
  "\n",
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  "\n",
  "\n",

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qz h x R r / B v Y I F v x 4 h N j 6 T Z 8 e 0 Y P r k 9 i j k M q 7 e T G b y z L V s 2 1 0 5 p 2 v o r 5 4 7 1 P O 2 Z 9 7 H g 3 T 6 G T 1 + 6
T 0 Z H C R S C a P f m 8 T O R R s 4 v v E A y q I S 3 P y 9 G D x j D A 4 e V c 9 b C n L y y C 7 3 1 N r 9 + y a d 4 0 2 6 t 9 Q Y H A C a d G
u J V C b j 0 O p d 7 F y 0 A R M L U 5 r 1 a U u 3 Z / q r Q 0 h q i V Q q Y d 4 P L / L d V + t Z + d c + i o p K C G r k z d w P x + L j W / 2
c y 9 7 B i l / + m M m 3 X 6 5 j 2 Z 9 7 U C p L C W n i y / u f j M M / s H I 0 l b p t Q 9 a u S m X 1 i g N k Z + d j a W l G W L M G j J / U
m 8 A g / W F A 1 c k 9 / 8 e p z P t q L S v + 2 k l h U Q m N g n 1 4 7 6 N x + P g a T j B 7 p 9 y / / T m b b 7 5 c w 7 I / d p X L X Z 8 P P
x 2 P f 2 C 1 1 4 K P r w t / r X 6 T H 7 7 7 m 2 2 b j p G a m o 2 j k w 1 j n + 3 J 5 C m G E z b q Y + r r q 3 n t 5 U y G D Q z D 2 s q U q 9
c T G f v i E o 5 V 4 4 X w 7 c J 9 x M R l M G F s O 1 5 5 s R s K h Z S r N x I Z P 2 0 p W 3 Z e 1 q k / Z E A o w P 9 N O I X R / 7 U P / 8 O
H U V l Z L b J x C Q z y 7 r v v 0 q Z N G 2 x s b L h 1 6 x Y / / P A D T k 5 O r F 2 7 V i u O T K D L a y d 3 P 2 g R 6 s y 5 9 O p 3 I n k Y
u b W k 6 g n b w 4 w k 5 R G N f S 9 8 d L d A 9 H m z d l u T P S x c f f X + 5 N J 5 E K R l X X v Q I t Q J t / Y D q 6 / 0 k G L d X 9 e Y /
C h Q g / e / h 5 Z T M w 9 W X + k h 5 J N 1 T R + 0 C H W m v 9 e j u d Y o N a r 5 r h 4 P G / U b b 3 / Q I t S J x C u f V F / p I a X 9 h k
P V V / q X O D S o f f W V / s 9 4 N J 8 6 D y H Z 2 d l 8 8 M E H Z G Z m Y m F h Q Y c O H X j t t d e E s U E g E A g E A o F A I B A I B P +
X C I P D f e L r r 7 9 + 0 C I I B A K B Q C A Q C A Q C w f 8 1 I n n j w 4 V Y f h c I B A K B Q C A Q C A Q C g U B w 3 x E e D g K B Q C A Q
C A Q C g U A g e C w w E i 4 O D x X C w 0 E g E A g E A o F A I B A I B A L B f U d 4 O A g E A o F A I B A I B A K B 4 L F A O D g 8 X A g P B
4 F A I B A I B A K B Q C A Q C A T 3 H W F w E A g E A o F A I B A I B A K B Q H D f E S E V A o F A I B A I B A K B Q C B 4 L B A h F Q 8 X w s
N B I B A I B A K B Q C A Q C A Q C w X 1 H e D g I B A K B Q C A Q C A Q C g e C x Q H g 4 P F w I D w e B Q C A Q C A Q C g U A g E A g E 9 x 1
h c B A I B A K B Q C A Q C A Q C g U B w 3 x E h F Y I H j o m 0 7 E G L U G d 8 L U o e t A h 1 4 q a t 8 Y M W o c 6 U F Z U + a B H q R J m b
x Y M W o c 5 k Z j + a v 1 E T H + 8 H L U K d c b P 0 f 9 A i 1 I m E Q x s f t A h l p s e U i Q 9 a h D q R X f L o r h 3 J G v k + a B H + 7
y g p z X / Q I t Q J 5 S P s I 2 / e I v R B i / B / h + T R V Z f H k k d 3 1 B I I B A K B Q C A Q C A Q C g U D w 0 C I 8 H A Q C g U A g E A
g E A o F A 8 F g g P B w e L o S H g 0 A g E A g E A o F A I B A I B I L 7 j v B w E A g E A o F A I B A I B A L B Y 4 H E 6 N H M P f W 4 I j w
c B A K B Q C A Q C A Q C g U A g E n x 3 h M F B I B A I B A K B Q C A Q C A Q C w X 1 H h F Q I B A K B Q C A Q C A Q C g e C x Q C S N f L g Q
H g 4 C g U A g E A g E A o F A I B A I 7 j v C w 0 E g E A g E A o F A I B A I B I 8 F Y k X 9 4 U L 8 P Q Q C g U A g E A g E A o F A I B D c d
4 S H g + C R o T g v n 3 P L / i b + 5 H m U x c X Y 1 / c m 9 K k h 2 P l 6 V d s 2 7 V Y U k f u P k R Y e R W Z M P G W l K k Y t / 1 6 n n r
K 4 m N O / r y L 9 V h T 5 a R m U q V R Y O D v i 2 7 k N f j 0 6 I p F J q z x P S X 4 + 4 a v W k X r m H K X F x V j V 8 6 H B y G F Y e l c
v I 0 B e w m l u r V h N 1 s l w j G R S 7 B u H 0 G D k M B R W l g b b J B 4 9 z t V f f k d q b E z H H 7 / V O r b 3 u c l 6 2 8 g B l V 0 D
S p u 0 1 z m m k E m Y 0 a 8 h g l t 6 Y W 2 m 4 F p C F l 9 v u s K h a 8 k l u o Y K / n i p H e 0 b 0 v P H / n D e X X V e 6 5 i D p T G z B
w X T O d g Z C 2 M 5 t x J z + H H H d b a d j a / V o f T J P m l U E w Z 3 8 s X a X M G l 6 E y + W X 6 O w x c S a 9 S + b l t v n u 0 f S I
C 3 L c p S F b d i s / h 6 + T m O X U r S l B n d y 4 8 2 w s 4 0 8 X P a z d G c t X v D e W 3 B 0 X u W e / q Q Y A a 3 9 c H a X M 6 1 2 C y
+ X n u R w 5 e T q m z 3 8 u B G T H s i W k e 8 q L i U o A l r D L Z r 5 u f A q r e 6 A d B 8 y n o y c o v r L L t c Y s S k Y G / 6 e j t i
K Z d x K y u f H y 9 F c y I p s 8 p 2 3 p a m D K n v Q r C d J Q G 2 F h h L J Q z c f J L b + U V a 9 Z o 6 W r O w S 4 j B f n 6 4 G M X v V
+ N q L b d C j m H a m D A G d 6 m P t Y W C a l E Z f L P 0 D i f P 3 a 5 R + 7 7 t f X h 2 U B A B P r Y o l W X c i s 3 k 6 6 V n O G Z A 1 5
o F 0 b H y s 7 4 A t B i z n I z s I r 3 l a i r 7 9 G E H D 0 7 g o 9 b z m E y + X n W R w 5 e q l v O X h w Y z b a j u v S w q L i V o 3 C r
N 9 6 E d f f l 8 c m u D / c z 4 / g g b D 0 f X W f 7 a Y G 5 m z I z J A 2 g R 2 o D m o f W x s 7 F g w s w f W b r m W L 9 + 7 v / i e V 6 Q
m s q x 2 W / p b R 8 0 a T z O r V q g K i k h 8 u 9 N x O 8 7 S G l h I U Z G R p Q B J n a 2 2 A T 4 4 9 B 3 A M Y O D n r 7 K M 7 I I G 7 1 K
r K v X K G s r A z L g A A 8 h 4 / A 2 N F R p 2 7 q o U M k 7 d x B U W o q C j s 7 n L p 0 x a l r 1 3 v q s 4 L c W z e 5 / s U X A D T 5 6 i
t k F n e M a Y W p S F J O Y Z Q X B / m 3 M S o r R R k 8 D Y W 5 / S o v 5 4 W 5 + e z 8 b S P X j l y g p K g E 9 w A v e j 4 / G N c G n l W
2 K 1 o p O L / 7 J F e P X C a x P I 6 C n H x s X o w I 7 t i U t k 0 7 I l P i d d r k Z m S z d + k 2 b p 6 4 T H 5 2 H h a 2 V v i g + j F o
+ u g 6 y Z 6 T X c D 3 8 7 Z w Y M 8 l C g u K C Q r 2 Y u q s / g Q 0 9 K i 2 7 Y d v r 2 D r x t M 6 5 V 4 + j q z Y M F u r L C 4 m l R + + 3
c r p 4 7 c o L l E S E O j O h C m 9 a N a y Q Z 3 k N n g t 3 2 x m f 8 W l h H j x 8 i s D C A i q / l o A V C o V f 6 8 + x t 9 r j h E d l Y
y J i Q I / f l e m z R 6 E X 4 D b P c n 2 K I / / A k F N E Q a H x 4 j X X 3 + d S 5 c u s X n z 5 g c t y n 2 n T K X i w O c / k h k d R 2 D
/ 7 h h b W X B z x w H 2 f P a t v T 5 6 D u t X p y r b J 5 y 7 T M T e I l h 7 u W P h 5 E D O b f 0 v z 6 X F J W T H 3 c Y 1 t B H m j v Y Y
G R m R e j O C s 3 + u J e l W F G 2 n P l u l j B f m L S a v N h 7 P 3 j 2 Q W l g Q v 3 c / Z z / 7 m u Z z 3 8 D M 2 b l K G Q v T M z j 7 6
V f I z E y p N 2 Q Q y q I i Y v / Z S V 5 c P M 3 e f h 2 J T P f n q i w s J H z l 0 q T G x n r 7 b D h B V 9 6 c y G j i d u 2 h z M 5 P b 5
s v x j a j d 5 g 7 v + + 9 R V R y L k N b e 7 P o x b a M + f Y g p 8 L T q r y G C n o l c S O s n r 3 e Y x Y m M l b N 7 I S 9 p T G L 9 4 W
T m l 1 I 3 6 b u f P 9 8 K 6 b / f o K N p 2 r / 8 1 j B Z 1 P b 0 r u l F 4 u 3 X C P q d j Z D O 9 f n l z e 7 8 t T c n Z y + 1 1 J l 2 5 d H
N O a l 4 S F s P x b D 2 r 0 R y G V G + H n a 4 G J v p l V v 4 u B G m J v K u X a z F U d b 0 z r L e i e f T 2 h J 7 + a e L N 5 x g 6 i k H
I a 2 9 2 X R z I 6 M + X Q v p 2 + m V t v + r c W n y C 9 S a r 6 r V i b 3 n z Y y g r l j m 5 J X W I K 5 i e 6 k t b b M b e l P N w 9 7 l t
9 I I D a 3 g P 4 + z n z b I Y j J + y 5 x P j X b Y L s Q e 0 t G N n A j M j u f q O x 8 A m w t 9 N a L y s 7 n n W P X d c r 7 + D j R x s W
W 4 4 m Z d Z L 7 s + n t 6 d 3 0 h 8 U b r x C V k M 3 Q b g 3 4 d W 4 P n n p z O 6 e v V G l c e / n J U F 4 a l Y T t R 6 J Y u / s W c q k E
P 2 9 b H V 2 p w M g I 5 k 5 s R V 5 B C e a m 9 3 7 P P 5 / c m t 4 t P V m 8 / T p R i T k M 7 e j L o t m d G P P R b k 5 f r 4 G + L D p J f
q F h f T l x L Z m Z 3 + s a 0 Z 7 r G 0 C g l w 1 H L l U 9 E b 6 f 2 N t Z 8 u b 0 o c T e p X D x S j S d 2 j b 6 T 8 7 7 X z / P n V q 1 w L
6 x 9 s u D d f 1 6 A f x d t I S U 0 2 c w c 3 N D q p B T l J l F U X o G l v 5 + p F + 8 T o r 5 i z R 8 + x 0 U N j Z a 7 U s L C 7 n x 9 V e
U F h T g 0 q c P R l I p S b t 2 c f 2 r L w l 6 6 2 1 k F p W / u Z Q D + 4 n 5 6 y 9 s m j b F q X s P c m / d J H b l C l T F x b j 0 7 1 2 n
P u + 8 l z E r V i A x N k Z V p G t o M 8 q N x S j 5 O J g 4 q j 8 F a o P C o 6 7 n Z S o V y + b + T G J k P G 2 H d s X M y o J T W w 6 x +
L X 5 T P x u F v b u h u c t J U U l b P h m G R 6 B P j T r 2 w 5 z G w v i r k a x 7 6 9 t R J 6 / w d O f v I S R U W V w V k Y U D H 6 b N Q
+ A Z n 3 a Y e V g T U 5 a F v E 3 Y u o k u 0 q l Y t b U R d y 6 f p v R 4 z p h Y 2 P o u p V H m T L + J 3 5 f P g l P b 8 P G p Q o U C h m
v z x 2 m V W Z h o T l m J i V m M v H p B U g k R o w e l w k T U w V b N 5 x k + g u / 8 N 3 P k w h r V q 9 0 8 t 9 9 L a + 8 t I h b l x M Y
M 6 4 z 1 r b m r F t 5 h B f H / 8 j i F d N r d C 0 f v b O K f 7 a e o c + A 5 g w b l Y 6 C g m J u X I s n I z 3 3 n u V 7 l M f / h x m J k
e H 7 I P j v E Q Y H w S N B 7 P G z p N 6 I o N 3 0 8 X i 2 a g q A Z + u m b J n 5 H h f X b K n S E A D g l 7 0 D D Q f 2 Q K Z Q c P r 3 l Q

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```
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```

```
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},
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doors', 'body-style', 'drive-wheels', 'engine-location', 'engine-type', 'num-
of-cylinders', 'fuel-system']"
  ],
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```

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        "y = encoded_data['price']"
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        "print(X.shape,y.shape)"
    ],
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```

```

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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,\ntest_size=0.33, random_state = 15)"
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        "outputId": "06802a50-f48c-4c2a-9486-e24f9bf4ceca"
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        "std_X_train = scaler.fit_transform(X_train)\n",
        "std_X_test = scaler.transform(X_test)"
    ],

```

```

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      "from sklearn.linear_model import Ridge\n",
      "from sklearn.linear_model import Lasso\n",
      "from sklearn.svm import SVR\n",
      "from sklearn.metrics import mean_squared_error"
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      "reg.fit(std_X_train, y_train)\n",
      "print('train accuracy : ',reg.score(std_X_train, y_train))\n",
      "print('test accuracy : ',reg.score(std_X_test, y_test))"
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```



```

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        "# get importance\n",
        "importance = abs(reg.coef_)\n",
        "# summarize feature importance\n",
        "imp_features = {}\n",
        "for i in range(len(features)):\n",
        "    imp_features[features[i]] = importance[i]\n",
        "top_10 = (sorted(imp_features.items(), key=lambda x: x[1],\nreverse=True)[:10])\n",
        "top_10"
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                    " ('wheel-base', 1357.8045558470317),\n",
                    " ('height', 1295.7011892972585),\n",
                    " ('horsepower', 1280.0989585099921),\n",
                    " ('length', 1173.9389802470178),\n",
                    " ('engine-type_ohcv', 1051.3668481029708),\n"
                ]
            }
        ]
    }
]

```

```

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},
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        "from prettytable import ALL as ALL\n",
        "table=PrettyTable(hrules=ALL)\n",
        "table.field_names = [\"Sr.No.\", \"Model\", \"Train accuracy\",
        \"Test accuracy\", \"MSE\"] \n",
        "table.add_row([1, \"Linear Regression\", 0.964 , 0.871,
        3570110.94 ])\n",
        "table.add_row([2, \"Ridge Regression\", 0.964 , 0.870,
        3588613.77 ])\n",
        "table.add_row([3, \"Lasso Regression\", 0.964 , 0.854,
        4046019.36 ])\n",
        "table.add_row([4, \"Polynomial SVR\", -0.128 , 0.00029,
        27800504.99 ])\n",
        "\n",
        "print(table)"
    ],
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        "outputId": "876d70b2-a30f-4c6b-baa4-88acf426870e"
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                "--+-----+-----+\n",
                "    | Sr.No. |      Model      | Train accuracy | Test\n",
                "accuracy |      MSE      |\n",
                "+-----+-----+-----+-----+-----+\n",
                "--+-----+-----+\n",
                "    | 1 | Linear Regression | 0.964 | 0.871\n",
                "| 3570110.94 |\n",
                "+-----+-----+-----+-----+-----+\n",
                "--+-----+-----+\n",
                "    | 2 | Ridge Regression | 0.964 | 0.87\n",
                "| 3588613.77 |\n",
                "+-----+-----+-----+-----+-----+\n",
                "--+-----+-----+\n",
                "    | 3 | Lasso Regression | 0.964 | 0.854\n",
                "| 4046019.36 |\n",

```

```

      "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
      "| 4 | Polynomial SVR | -0.128 | 0.00029 |
| 27800504.99 | \n",
      "+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
--+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

```

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]
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    "from sklearn.preprocessing import StandardScaler"
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  "execution_count": 95,
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    "pipe"
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  "outputs": [

```

```

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Ridge())])
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white;}#sk-container-id-1 pre{padding: 0;}#sk-container-id-1 div.sk-
toggleable {background-color: white;}#sk-container-id-1 label.sk-
toggleable__label {cursor: pointer;display: block;width: 100%;margin-
bottom: 0;padding: 0.3em;box-sizing: border-box;text-align: center;}#sk-
container-id-1 label.sk-toggleable__label-arrow:before {content:
\">\";float: left;margin-right: 0.25em;color: #696969;}#sk-container-id-
1 label.sk-toggleable__label-arrow:after {color: black;}#sk-
container-id-1 div.sk-estimator:after label.sk-toggleable__label-
arrow:after {color: black;}#sk-container-id-1 div.sk-toggleable__content
{max-height: 0;max-width: 0;overflow: hidden;text-align: left;background-
color: #f0f8ff;}#sk-container-id-1 div.sk-toggleable__content pre
{margin: 0.2em;color: black;border-radius: 0.25em;background-color:
#f0f8ff;}#sk-container-id-1 input.sk-toggleable__control:checked~div.sk-
toggleable__content {max-height: 200px;max-width: 100%;overflow:
auto;}#sk-container-id-1 input.sk-toggleable__control:checked~label.sk-
toggleable__label-arrow:after {content: \"<\";}#sk-container-id-1
div.sk-estimator input.sk-toggleable__control:checked~label.sk-
toggleable__label {background-color: #d4ebff;}#sk-container-id-1 div.sk-
label input.sk-toggleable__control:checked~label.sk-toggleable__label
{background-color: #d4ebff;}#sk-container-id-1 input.sk-hidden--visually
{border: 0;clip: rect(1px 1px 1px 1px);clip: rect(1px, 1px, 1px,
1px);height: 1px;margin: -1px;overflow: hidden;padding: 0;position:
absolute;width: 1px;}#sk-container-id-1 div.sk-estimator {font-family:
monospace;background-color: #f0f8ff;border: 1px dotted black;border-
radius: 0.25em;box-sizing: border-box;margin-bottom: 0.5em;}#sk-
container-id-1 div.sk-estimator:after {background-color: #d4ebff;}#sk-
container-id-1 div.sk-parallel-item::after {content: \"\";width:
100%;border-bottom: 1px solid gray;flex-grow: 1;}#sk-container-id-1
div.sk-label:after label.sk-toggleable__label {background-color:
#d4ebff;}#sk-container-id-1 div.sk-serial::before {content:
\"\";position: absolute;border-left: 1px solid gray;box-sizing: border-
box;top: 0;bottom: 0;left: 50%;z-index: 0;}#sk-container-id-1 div.sk-
serial {display: flex;flex-direction: column;align-items:
center;background-color: white;padding-right: 0.2em;padding-left:
0.2em;position: relative;}#sk-container-id-1 div.sk-item {position:
relative;z-index: 1;}#sk-container-id-1 div.sk-parallel {display:
flex;align-items: stretch;justify-content: center;background-color:
white;position: relative;}#sk-container-id-1 div.sk-item::before, #sk-
container-id-1 div.sk-parallel-item::before {content: \"\";position:
absolute;border-left: 1px solid gray;box-sizing: border-box;top:
0;bottom: 0;left: 50%;z-index: -1;}#sk-container-id-1 div.sk-parallel-
item {display: flex;flex-direction: column;z-index: 1;position:
relative;background-color: white;}#sk-container-id-1 div.sk-parallel-
item:first-child::after {align-self: flex-end;width: 50%;}#sk-container-
id-1 div.sk-parallel-item:last-child::after {align-self: flex-
start;width: 50%;}#sk-container-id-1 div.sk-parallel-item:only-
child::after {width: 0;}#sk-container-id-1 div.sk-dashed-wrapped {border:
1px dashed gray;margin: 0 0.4em 0.5em 0.4em;box-sizing: border-
box;padding-bottom: 0.4em;background-color: white;}#sk-container-id-1

```

```

div.sk-label label {font-family: monospace;font-weight: bold;display:
inline-block;line-height: 1.2em;}#sk-container-id-1 div.sk-label-
container {text-align: center;}#sk-container-id-1 div.sk-container {/*
jupyter's `normalize.less` sets `[hidden] { display: none; }` but
bootstrap.min.css set `[hidden] { display: none !important; }` so we also
need the `!important` here to be able to override the default hidden
behavior on the sphinx rendered scikit-learn.org. See:
https://github.com/scikit-learn/scikit-learn/issues/21755 */display:
inline-block !important;position: relative;}#sk-container-id-1 div.sk-
text-repr-fallback {display: none;}</style><div id=\"sk-container-id-1\"
class=\"sk-top-container\"><div class=\"sk-text-repr-
fallback\"><pre>Pipeline(steps=[(&#x27;scale&#x27;, StandardScaler()),
(&#x27;model&#x27;, Ridge())])</pre><b>In a Jupyter environment, please
rerun this cell to show the HTML representation or trust the notebook.
<br />On GitHub, the HTML representation is unable to render, please try
loading this page with nbviewer.org.</b></div><div class=\"sk-container\"
hidden><div class=\"sk-item sk-dashed-wrapped\"><div class=\"sk-label-
container\"><div class=\"sk-label sk-toggleable\"><input class=\"sk-
toggleable__control sk-hidden--visually\" id=\"sk-estimator-id-1\"
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class=\"sk-toggleable__content\"><pre>Pipeline(steps=[(&#x27;scale&#x27;,
StandardScaler()), (&#x27;model&#x27;,
Ridge())])</pre></div></div></div><div class=\"sk-serial\"><div
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    "def predict_price(wheel_base, width,engine_size,
bore,horsepower,highway_mpg,make,fuel,aspiration,\n",
    "\n",
body_style,drive_wheels,engine_location,num_of_cylinders,fuel_system):
\n",
    "    loc_index = np.where(X.columns==make)[0][0]\n",
    "    loc_index = np.where(X.columns==fuel)[0][0]\n",
    "    loc_index = np.where(X.columns==aspiration)[0][0]\n",
    "    loc_index = np.where(X.columns==body_style)[0][0]\n",
    "    loc_index = np.where(X.columns==drive_wheels)[0][0]\n",
    "    loc_index = np.where(X.columns==engine_location)[0][0]\n",
    "    loc_index = np.where(X.columns==num_of_cylinders)[0][0]\n",
    "    loc_index = np.where(X.columns==fuel_system)[0][0]\n",
    "\n",
    "    x = np.zeros(len(X.columns))\n",
    "    x[0] = wheel_base\n",
    "    x[1] = width\n",
    "    x[2] = engine_size\n",
    "    x[3] = bore\n",
    "    x[4] = horsepower\n",
    "    x[5] = highway_mpg\n",
    "    if loc_index >= 0:\n",
    "        x[loc_index] = 1\n",
    "\n",
    "    return pipe.predict([x])[0]"
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```
        "predict_price(90, 80,150, 3.50,120,25,'make_saab','fuel-  
type_gas','aspiration_std','body-style_sedan','drive-wheels_fwd','engine-  
location_front',\n",  
        "        'num-of-cylinders_four','fuel-system_4bbl')"  
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