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        "from sklearn.model_selection import train_test_split\n",
        "from sklearn.linear_model import LinearRegression\n",
        "from sklearn import metrics\n",
        "import warnings\n",
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          "      \n",
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.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-
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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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" 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",
"          element.innerHTML = '';\n",
"          dataTable['output_type'] = 'display_data';\n",
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16884.92400      1      0\n",
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1725.55230      0      1\n",

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	0	1	\n",				
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	0	1	"				

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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-.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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"        cursor: pointer;\n",
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"        width: 32px;\n",
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1px 3px 1px rgba(60, 64, 67, 0.15);\n",
"        fill: #174EA6;\n",
"      }\n",
"\n",
"      [theme=dark] .colab-df-convert {\n",
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"        box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
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0.3));\n",
"        fill: #FFFFFF;\n",
"      }\n",
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"      buttonEl.style.display =\n",
"        google.colab.kernel.accessAllowed ? 'block' :
'none';\n",

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```

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        "            const dataTable =\n",
        "                await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "
[key], {});\n",
        "            if (!dataTable) return;\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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```

	age	bmi	children	smoker	region	charges	
male\n",	0	19	27.900	0	yes	southwest	16884.92400
0\n",	1	18	33.770	1	no	southeast	1725.55230
1\n",	2	28	33.000	3	no	southeast	4449.46200
1\n",	3	33	22.705	0	no	northwest	21984.47061
1\n",	4	32	28.880	0	no	northwest	3866.85520
1"							

```

],
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  "    <div class=\"colab-df-container\">\n",
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  "      .dataframe tbody tr th:only-of-type {\n",
  "        vertical-align: middle;\n",
  "      }\n",
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  "        vertical-align: top;\n",
  "      }\n",
  "\n",
  "      .dataframe thead th {\n",
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  "      }\n",
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  "      <th>bmi</th>\n",
  "      <th>children</th>\n",
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  "      <th>region</th>\n",
  "      <th>charges</th>\n",
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```

```

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"      <td>3866.85520</td>\n",
"      <td>1</td>\n",
"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"</div>\n",
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"      title=\"Convert this dataframe to an
interactive table.\">\n",
"      style=\"display:none;\">\n",
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"      <path d=\"M0 0h24v24H0V0z\" fill=\"none\">\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-.94-2.06.94z\"><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 0-2.86zM5.41 20L4 18.5917.72-7.72 1.47 1.35L5.41
20z\"/>\"/>\",

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"            fill: #174EA6;\n",
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"            box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\n",
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0.3));\n",
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b1f8-8f34c6ef6e24 button.colab-df-convert');\n",
"        buttonEl.style.display =\n",
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'none';\n",
"    \n",
"        async function convertToInteractive(key) {\n",
"            const element = document.querySelector('#df-
0e73f738-833b-4c20-b1f8-8f34c6ef6e24');\n",
"            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",
        "                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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.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-
.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
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20z\"/>\\n\",
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"        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px
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"        box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\\n\",
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0.3));\\n\",

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'none';\n",
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    "        const element = document.querySelector('#df-f7792ef6-f91f-4ad1-bd65-5505d3c6414b');\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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google.colab.output.renderOutput(dataTable, element);\n",
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        "1    18   33.770         1 southeast   1725.55230      1
        "2    28   33.000         3 southeast   4449.46200      1
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interactive table.\">\n",
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```

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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.39.39.9.59 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
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```

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'none';\n",
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        "                const dataTable =\n",
        "                await
google.colab.kernel.invokeFunction('convertToInteractive',\n",
        "                [\n",
        "                [key], {}]);\n",
        "                if (!dataTable) return;\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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google.colab.output.renderOutput(dataTable, element);\n",
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document.createElement('div');\n",
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"    </tr>\n",
"  </tbody>\n",
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"</div>\n",
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1db1bbb86160')\">\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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1px 3px 1px rgba(60, 64, 67, 0.15);\n",
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        fill: #D2E3FC;\n",
    }\n",
    "\n",
    [theme=dark] .colab-df-convert:hover {\n",
        background-color: #434B5C;\n",
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0.3));\n",
        fill: #FFFFFF;\n",
    }\n",
    </style>\n",
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896c-1db1bbb86160 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-
8b4de29c-8c97-4c5e-896c-1db1bbb86160');\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",

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        "  <div id=\"df-52522673-42e2-4eb7-9107-8a7e8c011c7b\">\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",
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"        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",
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"      <th>age</th>\n",
"      <th>bmi</th>\n",
"      <th>children</th>\n",
"      <th>region</th>\n",
"      <th>charges</th>\n",
"      <th>male</th>\n",
"      <th>yes</th>\n",
"      <th>northeast</th>\n",
"      <th>northwest</th>\n",
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"      <td>1</td>\n",
"      <td>0</td>\n",
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interactive table.\">\n",
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height=\"24px\"viewBox=\"0 0 24 24\">\n",
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.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 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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1px 3px 1px rgba(60, 64, 67, 0.15);\n",
" fill: #174EA6;\n",
" }\n",
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" [theme=dark] .colab-df-convert {\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",
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" buttonEl.style.display =\n",
" google.colab.kernel.accessAllowed ? 'block' :
'none';\n",
"\n",
" async function convertToInteractive(key) {\n",
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```

        "            const element = document.querySelector('#df-
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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",
        "                    docLink.innerHTML = docLinkHtml;\n",
        "                    element.appendChild(docLink);\n",
        "                    }\n",
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northwest  southeast  \\\n",

```

```

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0      \n",
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1      \n",
0      "2    28   33.000           3   4449.46200       1    0
1      \n",
1      "3    33   22.705           0  21984.47061       1    0
0      \n",
1      "4    32   28.880           0   3866.85520       1    0
0      \n",
0      "\n",
0      "      southwest  \n",
0      "0           1  \n",
0      "1           0  \n",
0      "2           0  \n",
1      "3           0  \n",
1      "4           0  "

```

```

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  "        vertical-align: middle;\n",
  "      }\n",
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  "      .dataframe tbody tr th {\n",
  "        vertical-align: top;\n",
  "      }\n",
  "\n",
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  "      }\n",
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  "      <th>age</th>\n",
  "      <th>bmi</th>\n",
  "      <th>children</th>\n",
  "      <th>charges</th>\n",
  "      <th>male</th>\n",
  "      <th>yes</th>\n",
  "      <th>northwest</th>\n",
  "      <th>southeast</th>\n",
  "      <th>southwest</th>\n",
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"      <td>1</td>\n",
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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-
.94-2.06-.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 0-2.86zM5.41 20L4 18.59l7.72-7.72 1.47 1.35L5.41
20z\"/>\\n\",
"    </svg>\\n\",
"    </button>\\n\",
"    \\n\",
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"        gap: 12px;\\n\",
"      }\\n\",
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"        border: none;\\n\",
"        border-radius: 50%;\\n\",
"        cursor: pointer;\\n\",
"        display: none;\\n\",
"        fill: #1967D2;\\n\",
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"        padding: 0 0 0 0;\\n\",
"        width: 32px;\\n\",
"      }\\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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"\\n\",
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"        background-color: #434B5C;\\n\",
"        box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\\n\",
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0.3));\\n\",

```



```

        fill: #FFFFFF;\n",
    "    }\n",
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"We will use the feature selection method by backward elimination. It is used to remove those features that do not have a significant effect on the dependent variable.\n",

"We need to select the significance level to stay in the model (SL=0.05)\n",

"Now we will remove all those predictor variable from our data which has high p value."

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```

\n",
"=====\n",

```

```

"Dep. Variable:          charges_log   R-squared:
0.890\n",
"Model:                  OLS          Adj. R-squared:
0.890\n",
"Method:                 Least Squares   F-statistic:
1348.\n",
"Date:                   Mon, 26 Sep 2022   Prob (F-
statistic):              0.00\n",
"Time:                   17:55:27         Log-Likelihood:
-305.40\n",
"No. Observations:       1337           AIC:
628.8\n",
"Df Residuals:           1328           BIC:
675.6\n",
"Df Model:               8
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"Covariance Type:       nonrobust
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```

"=====
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```

		coef	std err	t	P> t
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-----\n",					
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7.543	7.746\n",				
	"x1	0.0208	0.001	29.841	0.000
0.019	0.022\n",				
	"x2	-0.0052	0.002	-3.447	0.001
-0.008	-0.002\n",				
	"x3	0.0755	0.007	10.835	0.000
0.062	0.089\n",				
	"x4	5.367e-05	1.38e-06	38.932	0.000
5.1e-05	5.64e-05\n",				
	"x5	-0.0674	0.017	-4.022	0.000
-0.100	-0.035\n",				
	"x6	0.2755	0.039	7.080	0.000
0.199	0.352\n",				
	"x7	-0.0047	0.021	-0.228	0.820
-0.046	0.036\n",				
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-0.102	-0.021\n",				

```

"=====
=====\n",

```

```

"Omnibus:                54.239   Durbin-Watson:
1.950\n",
"Prob(Omnibus):          0.000   Jarque-Bera (JB):
151.164\n",
"Skew:                   -0.106   Prob(JB):
1.50e-33\n",
"Kurtosis:               4.633   Cond. No.
1.18e+05\n",

```

```

"=====
=====\n",

```

```

"\n",

```



```

    "Notes:\n",
    "[1] Standard Errors assume that the covariance matrix of
the errors is correctly specified.\n",
    "[2] The condition number is large, 1.18e+05. This might
indicate that there are\n",
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<th> R-squared:          </th> <td>    0.890</td>\n",
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"</table>

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
[2] The condition number is large, 1.18e+05. This might indicate that there are
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 "[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.\n",
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Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
[2] The condition number is large, 1.16e+05. This might indicate that there are
strong multicollinearity or other numerical problems."

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        "\nX_train,X_test,y_train,y_test=train_test_split(df3[["age","\t\bmi","\t\
        \nchildren","\t\male","\t\yes","\t\northwest","\t\t\ southwest\"]],df3
        [\'charges_log\'],test_size=0.2,random_state=0)\n",
        "new_model = LinearRegression()\n",
        "new_model.fit(X_train,y_train)"
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        "print(\'Train score:\',train1_score)"
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```

```

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      "p = sns.lineplot(color='blue')\n",
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1.665      2.001\\n",
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