

ASSIGNMENT - 1

Assessing the Safety of Municipal Drinking Water

Name : HARIHARAN B

Register number : 922520106048

Naan Muthalvan Team: Analytical Data Science

Team ID: NM2023TMID19767

Assignmentlink in Workwl

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views	\\n",				
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4	\n",				
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0	\n",				
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0	\n",				
	"\n",				
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Postal Code	\\n",				
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122003	\n",				0
	"1		5	...	1909
122004	\n",				0
	"2		3	...	1939
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\\n",					
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	"	Number of schools nearby		Distance from the airport	
Price	\n",				
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1400000	\n",				
	"2			1	53
1200000	\n",				

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int64	Date	14620 non-null
int64	number of bedrooms	14620 non-null
int64	number of bathrooms	14620 non-null
float64	living area	14620 non-null
int64	lot area	14620 non-null
float64	number of floors	14620 non-null
int64	waterfront present	14620 non-null

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int64  \n",
        " 10   grade of the house               14620 non-null
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        " 11   Area of the house(excluding basement) 14620 non-null
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8.000000  \n",
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    "
        living area      lot area  number of floors
waterfront present  \\\n",
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14620.000000  \n",
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1.000000  \n",
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        number of views  condition of the house  ...  Built
Year  \\\n",
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1997.000000  \n",
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2015.000000  \n",

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Renovation Year      Postal Code      Lattitude
Longitude  \\ \n",
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114.404007  \n",
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114.709000  \n",
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114.519000  \n",
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114.421000  \n",
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113.505000  \n",
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        "
living_area_renov  lot_area_renov  Number of schools
nearby  \\ \n",
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14620.000000  \n",
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2.012244  \n",
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0.817284  \n",
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1.000000  \n",
        "25%      1490.000000      5097.750000
1.000000  \n",
        "50%      1850.000000      7620.000000
2.000000  \n",
        "75%      2380.000000      10125.000000
3.000000  \n",
        "max      6110.000000      560617.000000
3.000000  \n",
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        "
Distance from the airport      Price  \n",
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        "std      8.936008      3.675324e+05  \n",
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        "pd.plotting.scatter_matrix(data, alpha=0.2, figsize=(10,10))\n",
        "plt.show()\n",
        "\n",
        "# Compute the correlation matrix\n",
        "corr = data.corr()\n",
        "\n",
        "# Visualize the correlation matrix as a heatmap\n",
        "sns.heatmap(corr, annot=True, cmap='coolwarm')\n",
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"print(data.describe())\n",
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"# Display the column-wise data types\n",
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8.000000  \n",
      "\n",
      "
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waterfront present  \\\n",
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```

```

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```

```

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```



```

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"    </tr>\n",
"  </tbody>\n",
"</table>\n",
"<p>5 rows × 23 columns</p>\n",
"</div>\n",

```

```

"      <button class=\"colab-df-convert\"
onclick=\"convertToInteractive('df-7800adef-924e-47b8-9aef-
de84deec7df0')\"\\n\",
"      title=\"Convert this dataframe to an
interactive table.\"\\n\",
"      style=\"display:none;\">\\n\",
"      \\n\",
"      <svg xmlns=\"http://www.w3.org/2000/svg\"
height=\"24px\"viewBox=\"0 0 24 24\"\\n\",
"      width=\"24px\">\\n\",
"      <path d=\"M0 0h24v24H0V0z\" fill=\"none\"/>\\n\",
"      <path d=\"M18.56 5.44l.94 2.06.94-2.06 2.06-.94-2.06-
.94-.94-2.06-.94 2.06-2.06.94zm-11 1L8.5 8.5l.94-2.06 2.06-.94-2.06-
.94L8.5 2.5l-.94 2.06-2.06.94zm10 10l.94 2.06.94-2.06 2.06-.94-2.06-
.94-2.06-.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\",
"    <style>\\n\",
"      .colab-df-container {\\n\",
"        display:flex;\\n\",
"        flex-wrap:wrap;\\n\",
"        gap: 12px;\\n\",
"      }\\n\",
"\\n\",
"      .colab-df-convert {\\n\",
"        background-color: #E8F0FE;\\n\",
"        border: none;\\n\",
"        border-radius: 50%;\\n\",
"        cursor: pointer;\\n\",
"        display: none;\\n\",
"        fill: #1967D2;\\n\",
"        height: 32px;\\n\",
"        padding: 0 0 0 0;\\n\",
"        width: 32px;\\n\",
"      }\\n\",
"\\n\",
"      .colab-df-convert:hover {\\n\",
"        background-color: #E2EBFA;\\n\",
"        box-shadow: 0px 1px 2px rgba(60, 64, 67, 0.3), 0px
1px 3px 1px rgba(60, 64, 67, 0.15);\\n\",
"        fill: #174EA6;\\n\",
"      }\\n\",
"\\n\",
"      [theme=dark] .colab-df-convert {\\n\",
"        background-color: #3B4455;\\n\",
"        fill: #D2E3FC;\\n\",
"      }\\n\",
"\\n\",
"      [theme=dark] .colab-df-convert:hover {\\n\",
"        background-color: #434B5C;\\n\",
"        box-shadow: 0px 1px 3px 1px rgba(0, 0, 0, 0.15);\\n\",
"        filter: drop-shadow(0px 1px 2px rgba(0, 0, 0,
0.3));\\n\",

```

```

        fill: #FFFFFF;\n",
    "    }\n",
    "  </style>\n",
    "\n",
    "    <script>\n",
    "      const buttonEl =\n",
    "        document.querySelector('#df-7800adef-924e-47b8-9aef-de84deec7df0 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-7800adef-924e-47b8-9aef-de84deec7df0');\n",
    "        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",
    "          const docLink =
document.createElement('div');\n",
    "          docLink.innerHTML = docLinkHtml;\n",
    "          element.appendChild(docLink);\n",
    "        }\n",
    "      </script>\n",
    "    </div>\n",
    "  </div>\n",
    "  "
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```

```

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```

```

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          "Data columns (total 23 columns):\n",
          " #   Column                                Non-Null Count
Dtype  \n",
          " ---  ---
-----  \n",
          "  0   id                                14620 non-null
int64   \n",
          "  1   Date                            14620 non-null
int64   \n",
          "  2   number of bedrooms              14620 non-null
int64   \n",
          "  3   number of bathrooms              14620 non-null
float64\n",
          "  4   living area                     14620 non-null
int64   \n",
          "  5   lot area                        14620 non-null
int64   \n",
          "  6   number of floors                 14620 non-null
float64\n",
          "  7   waterfront present               14620 non-null
int64   \n",

```

```

int64 \n", " 8    number of views          14620 non-null
int64 \n", " 9    condition of the house    14620 non-null
int64 \n", " 10   grade of the house           14620 non-null
int64 \n", " 11   Area of the house(excluding basement) 14620 non-null
int64 \n", " 12   Area of the basement         14620 non-null
int64 \n", " 13   Built Year                   14620 non-null
int64 \n", " 14   Renovation Year              14620 non-null
int64 \n", " 15   Postal Code                 14620 non-null
int64 \n", " 16   Lattitude                  14620 non-null
float64\n", " 17   Longitude                  14620 non-null
float64\n", " 18   living_area_renov            14620 non-null
int64 \n", " 19   lot_area_renov              14620 non-null
int64 \n", " 20   Number of schools nearby      14620 non-null
int64 \n", " 21   Distance from the airport    14620 non-null
int64 \n", " 22   Price                      14620 non-null
int64 \n", "dtypes: float64(4), int64(19)\n",
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  }
]
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          "Date       0\n",
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          "number of bathrooms 0\n",

```

```

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        "lot area"            0\n",
        "number of floors"    0\n",
        "waterfront present"  0\n",
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        "condition of the house" 0\n",
        "grade of the house"    0\n",
        "Area of the house(excluding basement)" 0\n",
        "Area of the basement" 0\n",
        "Built Year"          0\n",
        "Renovation Year"     0\n",
        "Postal Code"         0\n",
        "Lattitude"           0\n",
        "Longitude"           0\n",
        "living_area_renov"    0\n",
        "lot_area_renov"       0\n",
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        "Distance from the airport" 0\n",
        "Price"                0\n",
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},
"metadata": {},
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]
},
{
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        },
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                    "1          1.5\n",
                    "2          1.5\n",
                    "3          2.0\n",
                    "4          1.5\n",
                    "... \n",
                    "14615       1.0\n",
                    "14616       1.5\n",
                    "14617       1.0\n",
                    "14618       1.0\n",
                    "14619       1.0\n",
                    "Name: number of floors, Length: 14620, dtype: float64"
                ]
            }
        ]
    ]
}

```

```

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                ]
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            "metadata": {},
            "execution_count": 23
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            condition of the house  grade of the house  ...
Built Year  \\n",

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living_area_renov	Renovation Year	Postal Code	Lattitude	Longitude
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0.684877	0.218461	1.523037	0.690476	0.466974
1.364982	0.218461	1.523037	0.671569	0.452822
1.958265	0.218461	1.470631	1.166052	0.587363
0.091594	0.218461	1.418225	0.813370	0.573115
...
0.366530	0.218461	1.726138	1.263460	0.481126
0.660863	0.218461	2.040574	2.074994	0.077885
1.254146	0.218461	1.202077	0.465015	0.728789
0.834507	0.218461	0.468393	0.561003	0.049485
1.586963	4.608517	0.789353	1.883745	1.047213

from the airport	lot_area_renov	Number of schools nearby	Distance
0.777886	0.282203	0.014981	
1.561260	0.335930	0.014981	
1.337439	0.236151	1.238588	
1.236505	1.154887	1.208625	

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