DATA COLLECTION

Handling Missing Values

Pandas isnull().any() function:

- **isnull().any() function** used to find null values or NaN values in the given dataset.

- This function used to detect the null values by Boolean values such as True and False.

- **Syntax for isnull().any() function:**

    data. isnull().any()

Pandas isnull().sum() function:

- **isnull().sum() function** to check the number of null values present in the columns.

- This function will produce output values as 0 if the NaN values not present, if NaN values are present, then it will show the NaN values.

Step-1:

- Firstly, Use the **isnull().any() function** to check the NaN values in the given dataset.

- If the NaN values are present, it will show the value by True but it shows False values, because there are no more null values and also there is non-categorical values.

- Alternatively, **isnull().sum() function** used to check the number of null values present in the columns.

- Then it will show the integer values of NaN values.

University Admit Eligibility Pr ×

Code   Python 3 (ipykernel)

```
     5   CGPA              400 non-null    float64
     6   Research          400 non-null    int64
     7   Chance of Admit   400 non-null    float64
dtypes: float64(4), int64(4)
memory usage: 25.1 KB
```

>>Handling Missing Values

[21]: `# isnull().any() function used to find null values or NaN values in the given dataset by boolean values.`
`data.isnull().any()`

```
[21]: GRE Score          False
      TOEFL Score        False
      University Rating  False
      SOP                False
      LOR                False
      CGPA               False
      Research           False
      Chance of Admit    False
      dtype: bool
```

[22]: `# isnull().sum() function to check the number of null values present in the columns.`
`data.isnull().sum()`

```
[22]: GRE Score          0
      TOEFL Score        0
      University Rating  0
      SOP                0
      LOR                0
      CGPA               0
      Research           0
      Chance of Admit    0
      dtype: int64
```

>>Data Visualization

File browser (left panel)

Name	Last Modified
Dataset	6 hours ago
Output	6 hours ago
Static	6 hours ago
Templates	6 hours ago
Video	6 hours ago
app.py	6 hours ago
Assignment 3.ipynb	4 hours ago
University Admit E...	6 hours ago
University Admit E...	3 minutes ago
university.pkl	6 hours ago