# **Data Gethering**

#### In csv format

Out[19]:

# 1. Opening a local csv file

# 2. Opening a csv file from an URL

#### in url i give github url (click on raw in github)

```
In [19]:
df1.head()
```

	Unnamed: 0	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unname
0	0	enrollee_id	city	city_development_index	gender	relevent_experience	enrolled_university	education_le
1	1	29725	city_40	0.776	Male	No relevent experience	no_enrollment	Gradu
2	2	11561	city_21	0.624	NaN	No relevent experience	Full time course	Gradu
3	3	33241	city_115	0.789	NaN	No relevent experience	NaN	Gradu

Unnamed: Unnamed: Unnamed: Unnamed: Unnamed: Unnamed: Male Unnamed: No open of the city\_162 Unnamed: Male experience on open of the city\_162 Unnamed: Unnamed: Open of the city\_162 Unnamed: Unnamed: Open of the city\_162 Unnamed: Open of the city\_1

## 3.Seperator

#### give own column name

```
In [22]:
```

#### In [23]:

movie

Out[23]:

				<b>4:</b>		
	sno	movie_name	release_year	rating	votes	geners
0	m0	10 things i hate about you	1999	6.9	62847.0	['comedy' 'romance']
1	m1	1492: conquest of paradise	1992	6.2	10421.0	['adventure' 'biography' 'drama' 'history']
2	m2	15 minutes	2001	6.1	25854.0	['action' 'crime' 'drama' 'thriller']
3	m3	2001: a space odyssey	1968	8.4	163227.0	['adventure' 'mystery' 'sci-fi']
4	m4	48 hrs.	1982	6.9	22289.0	['action' 'comedy' 'crime' 'drama' 'thriller']
612	m612	watchmen	2009	7.8	135229.0	['action' 'crime' 'fantasy' 'mystery' 'sci-fi'
613	m613	xxx	2002	5.6	53505.0	['action' 'adventure' 'crime']
614	m614	x-men	2000	7.4	122149.0	['action' 'sci-fi']
615	m615	young frankenstein	1974	8.0	57618.0	['comedy' 'sci-fi']
616	m616	zulu dawn	1979	6.4	1911.0	['action' 'adventure' 'drama' 'history' 'war']

#### 617 rows × 6 columns

```
In [25]:
```

```
movie.set_index("sno")
```

#### Out[25]:

	movie_name	release_year	rating	votes	geners
sno					_
m0	10 things i hate about you	1999	6.9	62847.0	['comedy' 'romance']
m1	1492: conquest of paradise	1992	6.2	10421.0	['adventure' 'biography' 'drama' 'history']

m2	mpyi <del>n</del> inates	release_ <u>year</u>	rating	25 <b>8349</b>	['action' 'crime' 'drama' 't <b>ffffff</b>
<b>SAS</b>	2001: a space odyssey	1968	8.4	163227.0	['adventure' 'mystery' 'sci-fi']
m4	48 hrs.	1982	6.9	22289.0	['action' 'comedy' 'crime' 'drama' 'thriller']
					<b></b>
m612	watchmen	2009	7.8	135229.0	['action' 'crime' 'fantasy' 'mystery' 'sci-fi'
m613	xxx	2002	5.6	53505.0	['action' 'adventure' 'crime']
m614	x-men	2000	7.4	122149.0	['action' 'sci-fi']
m615	young frankenstein	1974	8.0	57618.0	['comedy' 'sci-fi']
m616	zulu dawn	1979	6.4	1911.0	['action' 'adventure' 'drama' 'history' 'war']

617 rows × 5 columns

In [ ]:

# 4. Index\_col Parameter

In [31]:

df2.head()

Out[31]:

city city\_development\_index gender relevent\_experience enrolled\_university education\_level major\_discipline

enrol	مما	iА

STEM	Graduate	no_enrollment	Has relevent experience	Male	0.920	city_103	8949
STEM	Graduate	no_enrollment	No relevent experience	Male	0.776	city_40	29725
STEM	Graduate	Full time course	No relevent experience	NaN	0.624	city_21	11561
Busines Degre	Graduate	NaN	No relevent experience	NaN	0.789	city_115	33241
STEM	Masters	no_enrollment	Has relevent experience	Male	0.767	city_162	666
<b>F</b>			100				4

In [ ]:

#### **Header Parameter**

#### when column is become one row or records

```
In [75]:

df3

Out[75]:
```

	0	enrollee_id	city	city_development_index	gender	relevent_experience	enrolled_university	education_level	major_dis
0	1	29725	city_40	0.776	Male	No relevent experience	no_enrollment	Graduate	
1	2	11561	city_21	0.624	NaN	No relevent experience	Full time course	Graduate	
2	3	33241	city_115	0.789	NaN	No relevent experience	NaN	Graduate	Ві
3	4	666	city_162	0.767	Male	Has relevent experience	no_enrollment	Masters	
4									<u> </u>

```
In [ ]:
```

## 5. use\_cols parameter

### Select whatever column you not want

```
In [78]:

df5

Out[78]:
```

	enrollee_id	city	relevent_experience
0	8949	city_103	Has relevent experience

1	enrol <b>297_26</b>	city <b>cit9</b>	No mediewennt_experience
2	11561	city_21	No relevent experience
3	33241	city_115	No relevent experience
4	666	city_162	Has relevent experience
•••			
19153	7386	city_173	No relevent experience
19154	31398	city_103	Has relevent experience
19155	24576	city_103	Has relevent experience
19156	5756	city_65	Has relevent experience
19157	23834	city_67	No relevent experience

19158 rows × 3 columns

In [ ]:

# **Skip Rows**

```
In [81]:
```

In [82]:

df6

Out[82]:

	29725	city_40	0.7759999999999999	Male	No relevent experience	no_enrollment	Graduate	STEM	15	50- 99	Pvt Ltd	;
0	11561	city_21	0.624	NaN	No relevent experience	Full time course	Graduate	STEM	5	NaN	NaN	nev
1	33241	city_115	0.789	NaN	No relevent experience	NaN	Graduate	Business Degree	<1	NaN	Pvt Ltd	nev
2	666	city_162	0.767	Male	Has relevent experience	no_enrollment	Masters	STEM	>20	50- 99	Funded Startup	
3	21651	city_176	0.764	NaN	Has relevent experience	Part time course	Graduate	STEM	11	NaN	NaN	
4	28806	city_160	0.920	Male	Has relevent experience	no_enrollment	High School	NaN	5	50- 99	Funded Startup	

	•••				 No							
19151	<b>29725</b> 7386	city_40 city_173	<b>0.775999999999999</b> 0.878	<b>Male</b> Male	relevent experience	no_enrollment no_enrollment		<b>STEM</b> Humanities	15 14	50- NaN	Pvt Ltd NaN	>
					experience							
19152	31398	city_103	0.920	Male	Has relevent experience	no_enrollment	Graduate	STEM	14	NaN	NaN	
19153	24576	city_103	0.920	Male	Has relevent experience	no_enrollment	Graduate	STEM	>20	50- 99	Pvt Ltd	
19154	5756	city_65	0.802	Male	Has relevent experience	no_enrollment	High School	NaN	<1	500- 999	Pvt Ltd	
19155	23834	city_67	0.855	NaN	No relevent experience	no_enrollment	Primary School	NaN	2	NaN	NaN	
19156	rows ×	14 colur	nns									

\_ - - -

In [ ]:

#### nrows

## when you have lots of data and you select some pic of data

In [83]:

In [85]:

df7

Out[85]:

	enrollee_id	city	city_development_index	gender	relevent_experience	enrolled_university	education_level	major_dis
0	8949	city_103	0.920	Male	Has relevent experience	no_enrollment	Graduate	
1	29725	city_40	0.776	Male	No relevent experience	no_enrollment	Graduate	
2	11561	city_21	0.624	NaN	No relevent experience	Full time course	Graduate	
3	33241	city_115	0.789	NaN	No relevent experience	NaN	Graduate	Bu [
4	666	city_162	0.767	Male	Has relevent experience	no_enrollment	Masters	
995	28500	city_21	0.624	NaN	Has relevent experience	Full time course	Graduate	

996	enrollee_id 10371	city city_103	city_development_index 0.920	gender Female	relevent_texperiezere	enrolled_university	education_level	major_dis
		,_			experience	<u>-</u>		
997	10028	city_73	0.754	Male	Has relevent experience	no_enrollment	Graduate	
998	29671	city_40	0.776	Male	No relevent experience	Full time course	Graduate	
999	4482	city_103	0.920	Male	Has relevent experience	no_enrollment	Graduate	
1000 rows × 14 columns								
4								Þ
In	[ ]:							

### **Encoding Parameter**

Basically a lot of scanario you find UTF-8 encoding dataset but in some of the cases you find some different encoding

```
In []:
pd.read_csv('zomato.csv',encoding='latin-1')
In []:
```

## Skip bad line

when you load dataset that time in your row find some extra thing some it give some error while loading to skip this error or load the dataset

```
In [ ]:
pd.read_csv('BX-Books.csv', sep=';', encoding="latin-1",error_bad_lines=False)
In [ ]:
```

### **Dtype Parameter**

when your output variable is float like 0.0,1.0 and u want to convert this float values into int

```
df8 = pd.read_csv(data,dtype={"target":int})
In [96]:
# Now target column is int
df8.head(1)
Out[96]:
   enrollee_id
                 city_development_index gender relevent_experience enrolled_university education_level major_discip
                                                        Has relevent
0
        8949 city_103
                                      0.92
                                             Male
                                                                                          Graduate
                                                                                                            S
                                                                        no_enrollment
                                                         experience
In [ ]:
```

## **Handling Dates**

when you have dates column in you dataset and you want date column treate as a date not as string so we pass parse\_dates parameter

```
In []:
pd.read_csv('IPL Matches 2008-2020.csv',parse_dates=['date']).info()
```

# **Output**

In [ ]:

<class 'pandas.core.frame.DataFrame'> RangeIndex: 816 entries, 0 to 815 Data columns (total 17 columns): ] Column Non-Null Count Dtype

```
0 id 816 non-null int64
1 city 803 non-null object
2 date 816 non-null datetime64[ns]
```

### na\_values parameter

some of the dataset NAN value will dash(-) or double dash(--) so we say the our dataset to consoderd the NAN values to - and --

```
In [ ]:

pd.read_csv('aug_train.csv',,na_values=["-","--"])
In [ ]:
```

# **Loading Huge Data In Chunks**

#### chunksize

```
In [102]:

df9 =pd.read_csv("placement.csv", chunksize=30)

In [103]:

for chunk in df9:
    print(chunk.shape)

(30, 4)
(30, 4)
(30, 4)
(10, 4)

In [111]:

for chucks in df9:
    chucks
```