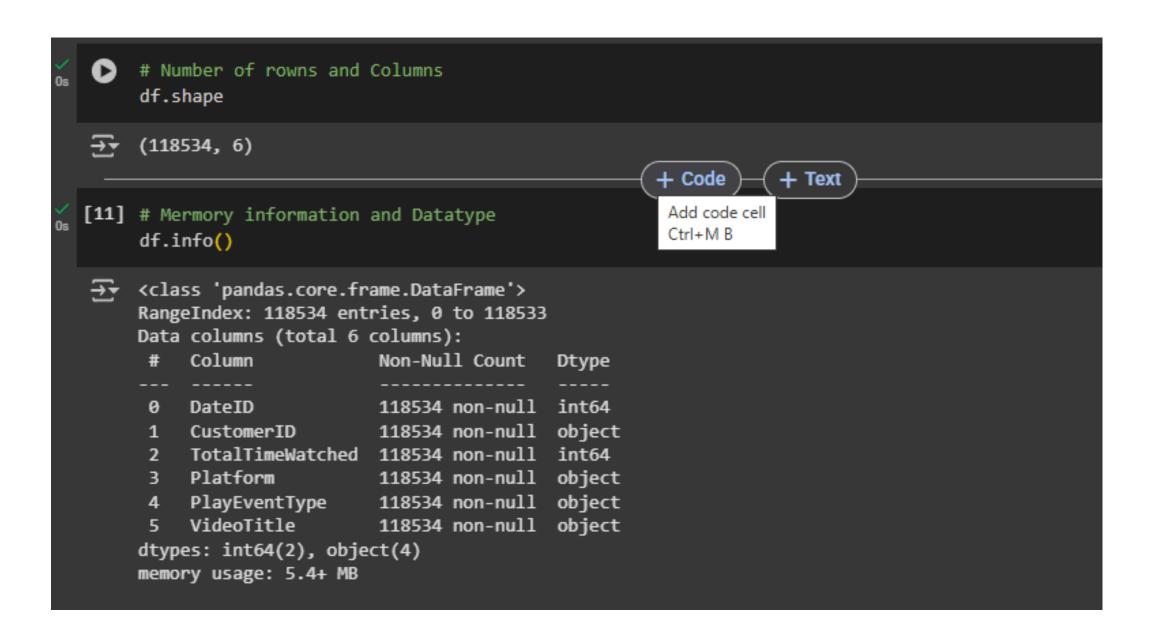
VIEWERSHIP ANALYSIS

Exploratory Data Analysis using Python, they include checking for missing values, understanding data types and getting summary statistics.

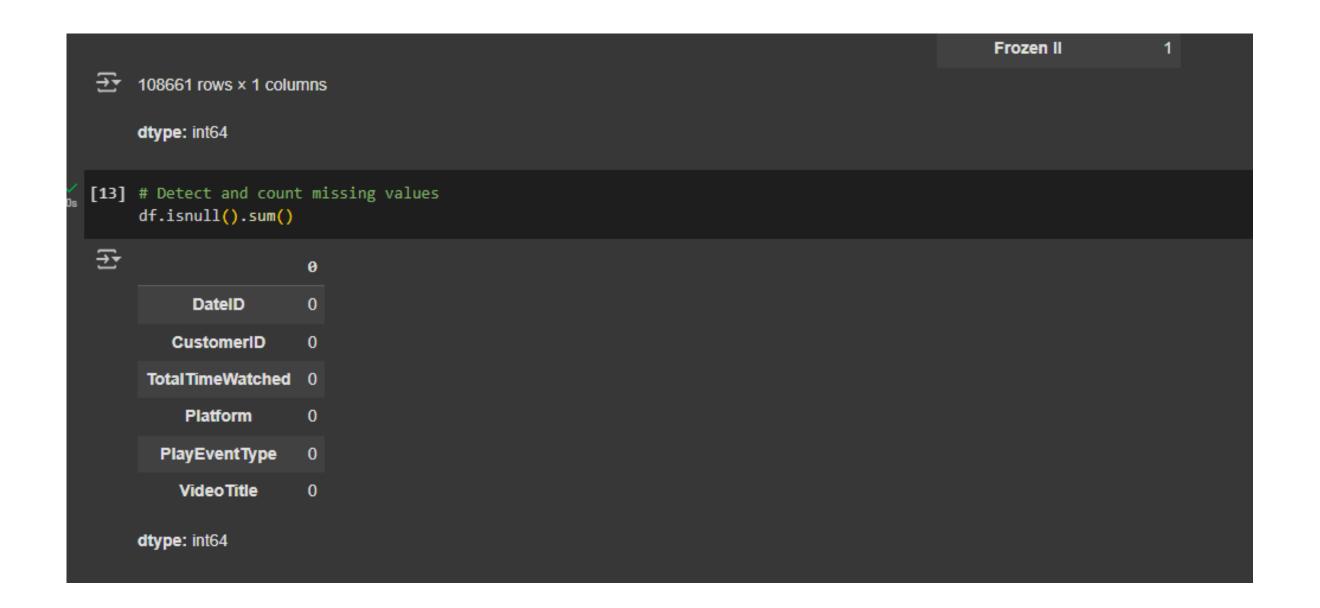
```
1. Importing libraries
[15] # for data manipulation & mathematical calculations
     import pandas as pd
     import numpy as np
2 Data ingestion
 [7] data_path='/content/Viewership Analysis .xlsx - Data.csv'
     # From a csv file
     df=pd.read_csv(data_path)
```

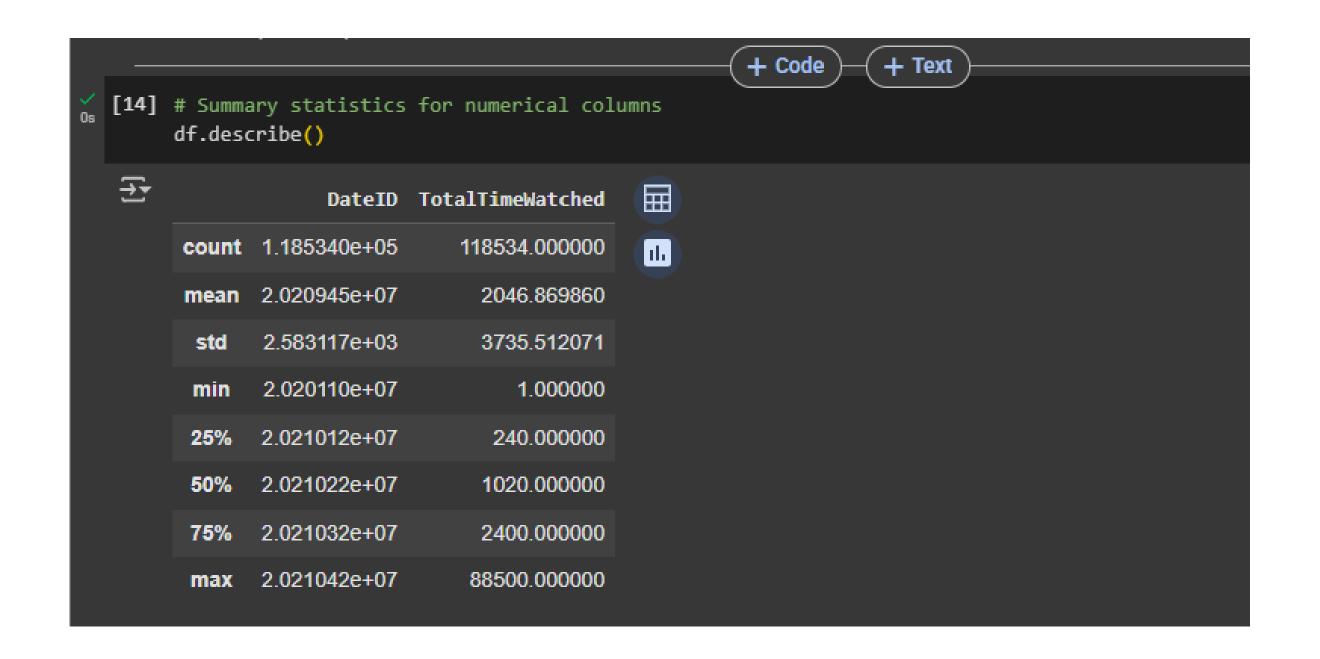
os [9]	# Summary Stats for numerical Columns display(df)												
₹		DateID	CustomerID	TotalTimeWatched	Platform	PlayEventType	VideoTitle						
	0	20201101	EW1DENH0EC1J3M9WAOZF9LSV004O	300	Leanback	LiveTV	F1 '20: Emilia Romagna GP						
	1	20201101	EW1DENH0EC1J3M9WAOZF9LSV004O	300	Leanback	LiveTV	F1 '20: Emilia Romagna GP	7					
	2	20201101	6TS2LLY0L3G66FVY86Q0JEZE000K	360	Leanback	Other	Chasing The Sun						
	3	20201101	6TS2LLY0L3G66FVY86Q0JEZE000K	360	Leanback	Other	Chasing The Sun						
	4	20201101	6PMV67PLJ2S47S68J0Y30XFK003C	120	Leanback	LiveTV	Sonic The Hedgehog						
	118529	20210416	DGXM5TJ18W1LANOLKJJN5MFT000G	600	Leanback	LiveTV	New Day						
	118530	20210416	DMMVDBZFDT1F7WL4BGWQ5KOJ000G	5194	Web	LiveTV	Buying And Selling With Property						
	118531	20210416	1JKBIAY7MEUH6BWX0SCU93GJ000I	47660	Web	LiveTV	Expresso						
	440520	20240440	4 A DV4 0 D 2 D 2 2 D E 7 2 T 0 N V 0 4 4 E 4 0 0 2 \	4005	Loophook	LiveTV	✓ 6:00PM 🔡 Pyth	on 3					



[12] # Views the unique Values and Counts
 df.value_counts(dropna=False)

2						count
DateID	CustomerID	TotalTimeWatched	Platform	PlayEventType	VideoTitle	
20201222	KN42BQKA57DYKED96YC6FB3E002E	60	Android	LiveTV	Unknown	20
20210203	JAJ82KH7E2I02BRM9VQJHDJM004H	1140	Leanback	Catch Up	Man V. Food	20
20210313	14WMFY74CBBN2CETEUP15O78001Q	60	Leanback	LiveTV	Unknown	16
20210117	1KFN67JSCELVDIBF4QZN391X002C	60	Leanback	LiveTV	Unknown	14
20210317	F2CI4KOVM23ILX8X0PHIGNEI006P	60	Leanback	LiveTV	Unknown	13
20210416	MDB1B8CG7EBC81XV199E2Y39006D	480	Android	LiveTV	Unknown	1
	M2KHDKDI8JIVAQ5HJDM2EAJM004F	17388	Web	LiveTV	Ontbyt Grotes	1
	M2EACDFMI3UO6C5N4FM297ZW004F	1234	Android	LiveTV	Unknown	1
20201101	6PMV67PLJ2S47S68J0Y30XFK003C	120	Leanback	LiveTV	Sonic The Hedgehog	1





[16] # Viewing the first 5 rows df.head(5) VideoTitle DateID CustomerID TotalTimeWatched Platform PlayEventType LiveTV F1 '20: Emilia Romagna GP **0** 20201101 EW1DENH0EC1J3M9WAOZF9LSV004O 300 Leanback LiveTV F1 '20: Emilia Romagna GP 1 20201101 EW1DENH0EC1J3M9WAOZF9LSV004O 300 Leanback Chasing The Sun 6TS2LLY0L3G66FVY86Q0JEZE000K 2 20201101 360 Leanback Other 3 20201101 6TS2LLY0L3G66FVY86Q0JEZE000K 360 Leanback Other Chasing The Sun Sonic The Hedgehog 4 20201101 6PMV67PLJ2S47S68J0Y30XFK003C 120 Leanback LiveTV ↑ ↓ ♦ ⇔ 🗏 🛱 🗓 🗓

