In [2]:	<pre># import the Python libr import numpy as np import pandas as pd import seaborn as sns #Extracting data :The So data = "C:/Users/Arun/Do</pre>	ource Dataset	sv"									
	df1 = pd.read_csv(data) df1 slno	M320 IVCIII CAMERA - 4K 100 10449087 SPARE FPARTS 16759732 FUJIFILM DIGITAL	DHR OLDING INDIA PRIVATE LIMITED FUJIFILM INDIA	LEICA ROSYSTEME VERTRIEB GMBH -DSA FUJIFILM DRPORATION	UNIT NO 325 TO 32 DLF TOWERS,SHI AJI MAR BUSINESS CENTR OFF NO 521 LEVE	Address 2 8 V NaN G	Shipper Address1 ERNST-LEITZ- STRASSE 17- 3735578 WETZLAR / DUETS 26-30 NASHIAZABU,2 CHOME MINATO -	Shipper Address 2 NaN	UNIT NO 325 TO DLF TOWERS, AJI MA BUSINESS CEN OFF NO 521 LE	Consignation Action 1988 328 SHIV NARG TRE	ERN JaN STI 3735578	w Shipper Address1 ASST-LEITZ- RASSE 17- WETZLAR 26-30 HIAZABU,2
	2 2 6/1/2023 8525890 3 3 6/1/2023 8525890	CAMERA F X- T30 II B/ 16670041 FUJIFILM DIGITAL CAMERA F X- S10 CD LI M320 IVCIII CAMERA - 4K H 00 10449087 SPARE PARTS 16670041	UJIFILM INDIA PRIVATE CO LIMITED DHR OLDING INDIA PRIVATE LIMITED	FUJIFILM DRPORATION LEICA ROSYSTEME VERTRIEB GMBH -DSA	BUSINESS CENTR OFF NO 521 LEVE V, CADDIE COM. UNIT NO 325 TO 32 DLF TOWERS, SHI AJI MAR	E NaN NaN	CHOME MINATO - KUTOKYO JAPAN 26-30 NASHIAZABU,2 CHOME MINATO - KUTOKYO JAPAN ERNST-LEITZ- STRASSE 17- 3735578 WETZLAR / DUETS 26-30, NISHIAZABU	NaN	V ,CADDIE CO BUSINESS CEN OFF NO 521 LE V ,CADDIE CO UNIT NO 325 TO	TRE EVEL N DM 328 SHIV N ARG	IAN NASI CHOME KUTOKY KUTOKY ERN 3735578	26-30 HIAZABU,2 MINATO - D JAPAN IST-LEITZ- RASSE 17- WETZLAR
	 4 4 6/1/2023 8525890 1542 1542 6/30/2023 8525890 1543 1543 6/30/2023 8525890 	DIGITAL CAMERA F X-S10 CD LI FFC MB TO WIFI MODULE 10PIN 55,1-IN 015-144-11,KD 43646960 PXW-7200 VICONIE	SONY EI LTD SONY SONY SONY SONY	FUJIFILM DRPORATION SONY LECTRONICS SINGAPORE PTE ony Electronics sia Pacific Pte Ltd	A-18 MOHA COOPERATIV INDUSTRIAL,ESTAT MATHU A-18 MOHA COOPERATIV INDUSTRIAL,ESTAT MATHU	L NaN NaN E NaN NaN E NaN	2-CHOME MINATO- KUTOKYO 106-8 #04-06, 1 VENTURE AVENUEPERENNIAL BUSINESS CIT PTE. LTD., 1 VENTURE AVENUE #04-06,PERENNIAL B	NaN NaN	A-18 MO COOPERA A-18 MO COOPERA A-18 MO COOPERA	HAN TIVE HU HAN TIVE TATE HU	#04-06, 1 NaN AVENUEP BUSIN VENTUR	E MINATO- (O 106-8 VENTURE
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In [3]:	#Checking NaN values for df1.isnull().sum() slno Date HS Code Product Description Consignee Name Shipper Name	COLOR CMOS TELEVISION Television dataset 0 0 0 0 0 0 0	LTD	Ltd	INDUSTRIAL,ESTAT MATHU		#04-06,PERENNIAL B		MATE		#04-06,P	B
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[6]:	Raw Consignee Name Raw Shipper Name Raw Consignee Add1 Raw Consignee Add2 Raw Shipper Address1 Raw Shipper Address2 Raw Consignee City Raw Consignee Pincode Raw Consignee State Raw Consignee Phone Raw Consignee Phone Raw Consignee E-mail Record Id dtype: object	object object object float64 object float64 object float64 object float64 object float64 object float64										
[7]: [7]:	#Identifying NULL values missing_value=["Na", "na df1=pd.read_csv("C:/User df1.isnull().sum() slno Date HS Code Product Description Consignee Name Shipper Name Consignee Address 1 Consignee Address 2 Shipper Address1	a", np.nan]	/import.csv	/", na_valu	es='missing_val	ue')						
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[8]: [8]:	Raw Consignee Phone Raw Consignee E-mail Record Id dtype: int64 df1.isnull().any() slno Date HS Code Product Description Consignee Name Shipper Name Consignee Address 1 Consignee Address 2	False False False False False False True True										
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-	# Handling NULL values f df1=df1.dropna(axis=1) df1 slno Date HS Cod 0 0 6/1/2023 8525896	de Product Co Description M320 IVCIII CAMERA - 4K H 00 10449087 SPARE F	DHR CIDING	LEICA ROSYSTEME VERTRIEB GMBH -DSA	Shipper Address: ERNST-LEITZ STRASSE 17 3735578 WETZLAR DUETS.	- Qty	Standard Unit Unit Rate \$	HS2 HS 4 85 8525	TYP Mode	Tr	ansmission paratus for H radio- telephony, F	Raw nsignee Name DHR OLDING INDIA PRIVATE LIMITED
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	4 4 6/1/2023 8525890	10449087 SPARE PARTS 16670041 FUJIFILM DIGITAL CAMERA F X- S10 CD LI FFC MB TO WIFI MODULE UDIN 55,1- 015-144- 11,KD	INDIA PRIVATE LIMITED SUJIFILM INDIA PRIVATE LIMITED			/ 1 	NOS 2101.580 NOS 501.147 NOS 1.522	85 8525 	6 HC Air	Available Trap Not Available Trap Not Available	radio- telephony, ra ansmission paratus for radio- telephony, ra ansmission paratus for radio- telephony, ra	INDIA PRIVATE LIMITED UJIFILM INDIA PRIVATE LIMITED SONY DIA PVT LTD
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	1545 1545 6/30/2023 8525890 1546 1546 6/30/2023 8525890 1547 rows × 32 columns #verifying null values a	PXW- Z280V//CIN5 VIDEO CAMERA RECORDER SRG- X120/WC IN5 32495690 COLOR CMOS TELEVISION	SONY SODIA PVT A	ony Electronics Isia Pacific Pte Ltd Inny Electronics Isia Pacific Pte Ltd	PTE. LTD., VENTURE AVENUE #04-06,PERENNIAL B PTE. LTD., VENTURE AVENUE #04-06,PERENNIAL B	2	SET 2851.580 SET 1274.544			Not Available ap	pparatus for radio- IN telephony, ra ansmission pparatus for	SONY SC DIA PVT A LTD SONY SC DIA PVT A LTD
L]:	#verifying null values a df1.isnull().sum() slno Date HS Code Product Description Consignee Name Shipper Name Shipper Address1 Standard Qty Standard Unit Standard Unit Rate \$ Tax % Estimated CIF Value \$ Unit Rate \$	o contraction of the contraction										
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86]: 86]:	Port Of Origin HS Description Raw Consignee Name Raw Shipper Name Raw Shipper Address1 Record Id dtype: int64 df1.isnull().any() slno Date HS Code Product Description Consignee Name	O O O O O O False False False False False False False										
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L3]:	Percentage Match dtype: bool #Extracting data :The So data1 = "C:/Users/Arun/D df2 = pd.read_csv(data1) df2 0 1ST LENS ASSY (914) 1 92992523 VPLL-Z4015/4V 2 16536659 FUJIN	False Durce Dataset Downloads/data-bar Product I 47),A-2182-241-A,SEL16 WW SHORT FOCUS ZOO ION LENS GF32-64MMF	Description 635GM(PA DM LENS V	SEL16350 VPLL-Z4015/4W GF32-64 n	/W Sony							
	3 16443060 F XF50 4 16536659 FUJIN 20230 1664712 20231 16642960 20232 1661955 20233 1658910	0-140MMF2.8 R LM OIS ION LENS GF32-64MMF 3 FUJIFILM Digital Came 5 FUJIFILM Digital Came 64 FUJIFILM Digital Came 101 FUJIFILM Digital Came IP DOME PI-SFW103L P	WR (LENS) F4 R LM WR era F XT200 era X100V S era FX-X-T3 era F FX-X-	XF50-140 n GF32-64 n	nm Fujifilm nm Fujifilm 00 Sony 00 Fujifilm T3 Sony 4-X Sony							
13]: 13]: L5]:	#checking for null value df2.isnull().sum() Product Description 0 Model Name 0 Brand Name 0 dtype: int64 df2=df2.dropna() df2.isnull().sum() Product Description 0 Model Name 0											
L6]:	Model Name 0 Brand Name 0 dtype: int64 # Task 1 - 100% match # Merge data based on Pr merged_df_task1 = pd.mer # Filter the columns req result_task1 = merged_df # Display the result of print("Task 1 Result:") print(result_task1)	roduct Description ge(df1, df2, on=' quired (Brand Name task1[['Brand Na	'Product De	escription' Name) from	, how='inner') m the merged Da	taFrame.	e': 'Brand Name1	, 'Model I	Name': 'Model	Name1'})		
	Task 1 Result: Brand Name1 Mod Fujifilm Fujifilm Fujifilm Fujifilm Fujifilm Fujifilm Sony Sony Sony Sony Sony Sony	Mel Name1 XF16 mm XF16 mm XF30 mm XF30 mm XF30 mm ILCE-7M3 ZV-E10 G-X120/BC G-X120/BC										
18]: 19]:	[2801 rows x 2 columns] pip install fuzzywuzzy Requirement already sati Note: you may need to re pip install levenshtein Requirement already sati Requirement already sati Requirement already sati Note: you may need to re # Task 2: 90% match with # Calculate the percenta # Calculate the percenta	estart the kernel esfied: levenshtei esfied: rapidfuzz< estart the kernel en product descriptinge match between	in in c:\us 4.0.0,>=2. to use upd tion of Dat the produc	sers\arun\ar 3.0 in c:\u lated packag ta Bank. et descript	ges. naconda3\lib\si users\arun\anac ges.	te-packages onda3\lib\s:	(0.21.1)	om levensht	ein) (3.1.2)			
		age match for each pund(100 * df1["Pr f2["Product Descri- n df1 with the per = percentage_match ge Match"] <= 90] the "Product Descri-	n row in diroduct Description"].st	cription"]. cr.lower(). atch than 90	str.lower().app	ly(
		de Product Co Description 16641210 FUJINON LENS F XF16MMF1.4 R WR PH 16641210 FUJINON FUJINON LENS F	nsignee Sh Name Sh :UJIFILM INDIA	FUJIFILM FUJIFILM	Shipper Address1 26-30, NISHIAZABU 2-CHOME MINATO- KUTOKYO 106-8 26-30, NISHIAZABU 2-CHOME MINATO-	dard Standar Qty Un 4 NO	Rate \$	All Availa		FUJIFILM INDIA PRIVATE (Raw Shipper Name FUJIFILM CORPORATION FUJIFILM CORPORATION	Raw Shipp Addres 26- NISHIAZA 2-CHOI MINAT KUTOK' 106- 26- NISHIAZA 2-CHOI MINAT
	1 42 6/7/2023 9002110 2 38 6/7/2023 9002110 3 38 6/7/2023 9002110	FUJINON F LENS F XF16MMF1.4 R WR PH 16792576 FUJINON F LENS F XF30MMF2.8 F R LM WR MC TH 16792576 FUJINON F LENS F XF30MMF2.8 F R LM WR MC TH 16792576 FUJINON F LENS F XF30MMF2.8 F R LM WR MC	INDIA PRIVATE COI LIMITED SUJIFILM INDIA PRIVATE COI LIMITED SUJIFILM INDIA		2-CHOME MINATO- KUTOKYO 106-8 26-30, NISHIAZABU 2-CHOME MINATO- KUTOKYO 106-8 26-30, NISHIAZABU 2-CHOME MINATO- KUTOKYO 106-8	4 NO 4 NO	S 323.255	Air Availa Air Availa	Not MIRRORS ble AND OTHER OPTICAL ELEM LENSES, PRISMS, MIRRORS ble AND OTHER OPTICAL ELEM LENSES, PRISMS, MIRRORS AND OTHER OPTICAL ELEM AND OTHER OPTICAL OPTICAL	FUJIFILM INDIA PRIVATE CLIMITED		2-CHOI MINAT KUTOK' 106- 26- NISHIAZA 2-CHOI MINAT KUTOK' 106- 26- NISHIAZA 2-CHOI MINAT KUTOK'
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	2800 1544 6/30/2023 8525890 2801 rows × 35 columns pip install fuzzywuzzy Requirement already sati	CMOS TELEVISION HDC3500/L5 UCJ 43648285 COLOR CMOS PORTABLE TE	SONY ELE	SONY ECTRONICS SIA PACIFIC PTE LTD	06,PERENNIAL B 1,VENTURE AVENUE#04- 06,PERENNIAL BUSINESS CITY	1 SE	Т 8147.580	Alf Availa	telephony, ra Transmission apparatus for radio-	LTD		
33]:	<pre>#Task3: from sklearn.feature_ext from sklearn.metrics.pai # Calculate the percenta vectorizer = TfidfVector tfidf_matrix = vectorize cosine_similarities = co percentage_match = np.re</pre>	estart the kernel craction.text import craction.tex	to use upd ort TfidfVe ine_similar the product ord', ngrandf2["Product tfidf_matri _similariti	ectorizer rity ct descript n_range=(1, ct Descript ix, vectori ies.diagona	ions of the two 3), min_df=0) ion"]) zer.transform(d 1())	sheets usi	ng cosine similar	rity				
	<pre># Create a new column in df1["Percentage Match"] # Filter the import sheet df1 = df1[df1["Percentage # Merge the import sheet merged_sheet = pd.merge(# For rows where Brand N for index, row in merged if row["Brand Name"]</pre>	the import sheet = percentage_mate et to only rows wh ge Match"] <= 90] t and data bank sh (df1, df2, on="Problem is still not d_sheet.iterrows()	t with the ch here the perioduct Description available,): me"] == row	percentage made product de ription", he get the be	match atch is up to 9 escription columow="inner") rand name from	mn the Brand t						
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