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	Assignment -1
•	Title: Data Wrangling - I
•	Problem Statement:
	perform the foll operations using Python on any open-source
10 1 L 1 1 L 1	
->	Import all required libraries
2>	Locate an open-source data from the web.
3>	Lord the data set into pandas dataframe.
<u> 4</u> >	Data Preproce sing: · check for missing values in the data: use panday describe() function to get some initial statistics.
(z)	Data fromatting of Data Norma lization
	summarize the types of variables by checking the
stale	data types of the variables in the dataset.
tandes i	Turn categorical values into guantative variables
	de la
Total	Objectives:
(1)	To learn & understand date wrangling wing Pandos
2	to learn of understand data wrangling wing Pandas to perform data preprocessing, formatting of
Li, si	hohmalization.
a	To perform one hatencoding on categorical variable



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	oatomes:
	students will be able to
	Perform basic duta preprocessing, data formatting of duta normalization.
2 >	Perform encoding for conversion
	S/W 1 H/W Requirements:
	Windows -10, 64 bit, 4 GB RAM, 512 GB SSD, Fotel 13-10H
•	Theory
	When working with tabular data, such as data stored
	in spread sheets on databases, pandos is the right tool.
	Pandas helps to explore, clear of process data.
141.	In pandas, a desta table is called pata frame pandas
	support integration with many file formats (csv,
	excels sall, your monthly duta from each of these
	read *.
,	similarly, to * methods are used to store data.
	When selecting a single column of pandos dataframe, the nexult is a pandos series. To select the
or the color of	the nexult is a pandow series. To select the
	column, use column label in LJ.
	Pandas represent migure duta with special blogt
ndes .	value NaN veries: 1509 () & Series. not no () can
	be used to filterrows dropag() is used to drop
	rows with missing values. fillings) is used to lill
- Side is	rows with missing values. fillings) it used to fill rows with missing values.
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	object to specified datatype.
•	Analysis / Methods:
	The given dataset contained 13500 nows x 21 columns
	with missing values in some columns that was filled
	with default o'. Some columns that didn't satisfy
	with missing values in some columns that was filled with default 'O'. Some columns that didn't satisfy dtype were type casted to appropriate dtype. One of the categorical variables 'Type' was converted to numerical variables by use of get dummies (). The end results were printed on console of the
	the a tegoral cal variables type was converted to
	The and howelf by we of get dummies ().
	duta frame was saved in file.
	and the last to save a in little.
	· Con clusion:
	Success fully performed the mentioned operation on the given dataset.