

	PICT, PUNE			
Name: Mehul Oswal TITLE: Descriptive Statistics - Measure of central tendency and Variability PROBLEM STATEMENT: Perform following operations on any open source idataset (provided nbacsy, iris.csv) Descriptive statistics (mean, median, minimum, maximum, standard deviation) for a dataset (age, income, e with numeric values grouped by one of the qualitative (categorical variable). Create a list that contains a numeric value for each desponse to the categorical Variable Waite python program to display some basic statistical details like percentile, mean, standard deviation, etc. of the species of 'Iris-setora', 'Iris-versicolor' and 'Iris versicolor' of Tris. (sv dataset [EARNING OBSECTIVE: 1) Understand Descriptive Statistics 2) dearn and apply the skeps to measure central		Assignment -3		
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		2) Leasn and apply the steps to measure	2 central	
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	THEORY
	What is central tendency?
	-> A measure of central tendency is a summary statistics
	that appresents the centra point or typical value of a
	dataset. These measure indicates where most values
	in a distribution falls and agre also defend to as the
	central location of a distribution
	Basic Statistic Teams!
-	
	1 Mean: Finding an average is often colled 'mean' value
	Genesally,
	mean = sum = 2f(N)
	count(n) N
	There is a supplied that the second of the second supplied the second supplied to the secon
	3 Median: Can be defined as the middle observation
	in a set of data.
	Generally,
· n	For odd; > The number in the middle
	For even: → Avesage of the two middle obs.
	3 Mode: Most faequent observation
	1 Min, Max and Range



	5 Range: Numerical indication of the span of our date
4	
	6 Standard deviation: One way of measuring the dispersion
	of a given set of data. It is calculated
	by the square good of the average
	squased deviation
	Analysis and Approach:
	Part 1:
	() Import modules (pandas, numpy)
	@ Read the CSV
2	3 Pseprocessing of the data
	4) Group the data on the basis of age
	5 Paint statistics based on age
	J
	Part 2:
	1 Import modules
	2 Read the COV
	3 Paeprocessing de data
	@ Group data based on species
	6 Paint Statistics based on species
	ousea on species
	Conclusion
	Undeastood the measures of central tendency
	and vasiability and ways to implement them on
	and a little title was
	the dataframo.