

Statistics. My name? Department of mathematics. Dependency. In the last class, we have already seen. Interesting. You just stopped.

So let us do the measures of central tendency. What we have seen there is there are measures of central tendency like and today we are going to see the media so. Do you see? Which is nothing but its power is equal to some reason over XI. For the group when it is create distribution. The data points are there. Say. Scored. For me. It is a continuous distribution. Explorer. And then there is a frequency and you get actually calculate the 1.4. It doesn't say. Same for me. We have seen all that in the last class. We have also seen what is mode is the number which is the most frequent. Is the maximum. The data is displayed on the form of. You will find the maximum fine and you will declare that number as a model. In continuous case the matter slightly gets difficult whether you have to identify the model class is still denotes the lower value of the model class one and not respectively denote the values. One it is not respectively. It's two months. What is the frequency of the model class? If not, it's the frequency of the glass just proceeding to the model class, and if there is the frequency of the classics succeeding in the model class in the last lecture, we have seen this and it is the class size and we as well whenever we have given that the class says uniform, that means the class size for all the classes.

So today we are going to do similar things for media.

So let us start with media. So. The data is arranged in ascending order. We already seen this. Southwest. Quiet. First player who arranged the consenting parties. It is 2578. Is even. Why? This particular data. Formula for meetings. But it is even connected like this. Why?

So please. We already know now if you have been given appropriate. How would you compare? Or can be continuous if it is discrete, data will be given in the form of side.

So you will takes one such data. Scientists 6 consider the scores of the students in their exam, which is called. I wanted to take the middle number. Seems seems. Six District Court. We need. According to our definition. It just. Can you see the model number? Because you see the data. \$400. The numbers.

So what is your data corresponding to number 6? But is not. We cannot divide by. We cannot require them,

So there is no model,

So you have to take all the subsidizing to that. Which is essentially the. The first this is 20. This case we will compute the media for a group with continuous distribution. It says will be replaced by. Philosophers. Testing their data. The frequencies why? So. First thing that you need to do is consider the technique. Now I want to complete them if I want to. Just. Close. I will see. If I divide. 26

So I want to get this number. Please. 2222 and 20. Why may be in the class? 36.126 occurs. Process. 60 My class is here. The way we derive the formula. Court.

So I start with the lower rates. Investors in the moment. Take the model. One of their. Minus. I need to take the.

So that. How many elements are there in the? Note this. Then I will divide by the frequency. The median class. Project.

So let us just. This is. In this case. See if. Pursuing. Appropriate. Well. Quincy. Why aren't you reading the words to spell this number? If you're seeing, it will be less than one always. Being this last. Increased by its political formula. It's.

So now in this case the lower limit of the median class is equal to 16. The number of observations is equal to. Cumulative frequency of the previous preceding. It's 20. The frequency of this particular. These so. You see this. Nobody. All these values in this formula. 26.5 minus. Upon does not exist. 66 contagious why do we have? Substance. The question is, are the measures of central tendency.

So they're going to launch it. By giving one. Just take. The voice. 6. According to our discussion. In the earlier Rangers. We will see how these things are looking at me based on the measure of central.

So we're talking. It is. What is an idiot? The media building the data set is arranged in ascending or descending order.

So in all these cases. What do you mean? You know, if your computer you know this. If you look at the first element in the last element.

So what do you plus one and $18 / 2$ is 9 $13 + 18 / 2$ is 9 and 9 is 9. This data set and same thing was true for all the three datasets.

So now I have a data set with the number of elements which are five. Us here. All the three deposits have seemed like if you draw across. Start. All of the. Got the points the first date of your file. Seeing demarcation is available for this so. They will try to plot these points. We will be here. Six weeks here. As you can see here. This year it's not guardians. You can see the data in the first data set, this is. Corresponding to. The data points are only for the life of the sponding to. Data volumes. More. Scattered data points were given by the. This information with any other concern. It's not really at all. We need to study. This better list of the data points like this study study that measures of this.

So what? What are the features that we want when we are studying the features of?

So the way we define central.

So like simple. Trying to queue a single single number

So we consider. Variability in the same standards. Just simple. Because it is scattered as it is similar. I suppose. Personal. Quarter film, makers of there are different methods of working at this point. The different areas with tears for looking at this person

So various methods. 1st. That's. Studying their managers.

So what? Specific. Who is better? No. What are they? We know there are all measures of dispersion. The first one is the raids. Which is really easy. Second one please. **** movies most. In this particular course, we will not study for. Only rates. Standard. This is what? Which is very easy and easy. 43 difference. Observations. Distribution.

So that is saving. Things to do? Can also.

So in order to get what do you need? We need.

So one. Just be quiet. Xbox. Eyes. 6. Dreams on this particular data. Let me see. Spikes. That example. Let us try and see what is arranged. Toward me. 70

So we only arrange for data set. 16 minus I'm paying for it doesn't. 7 - 7. Now it is clearly visible how different these datasets.

So why is changing in four points another woman changing into their points, and the next task is renting and 64. That means the range is much bigger than the range of data set B&C, and the data set B is in the middle and data set C is the least.

So this is the practical application on the range, and this is the most easiest way to identify. But this has some drawbacks.

So what are the drawbacks of rings? What's this? This is the simplest. What? What is this? Why I'm calling it? Because when we define that this person, they are always saying something like. It may just degree of slenderness of the observations around the central value. Here we are not considering the central value when we are considering the range.

So the way that this person can Just Dance in the range. What is the central value? Or even if you know it doesn't say anything about how it varies? We will not rely on the rains if we know the center,

So we need some other majors. Which really rely on. Which we believe is the center. We need some other way. Which explicitly use the center.

So we will see what are the other measures banning the use central value or not in the future to switch to the next. That is. Before I go to, I want to make a remark that this range for data doesn't matter. What is

the frequency of the data? What do you need is maximum value and many more.

So all the data sets like. Continuous data. Set up or. All the for all those things, formula remains the same. These things separate. How do you? Suppose I have been given the data set which is. No. 100 arbitrary point. Is. At this point, if I want to compute the main. Find it. Is equal to. 1M buying. Inside minus. Alright. Are you correct? Where? Or if you want to be more precise, you will say. I added this be inside. Good morning. Basic definition.

So now is the knowledge that has stopped. Comes from the meaning of all division. This TI is called deviate. In this absolute value of their division, we have something over absolute. When taking the average of. This average makes. Is this? In order to do this.

We need to remind. What about? Compute.

So that we give you the purses. Still.

So you have the computer. The deviations about. Record. It's. Just in the morning I sent some. Something. Things. Morning. Step. For you. And what you? Now let us demonstrate the company.

So in step one you will compute the center account.

So what will be your? This. Take this data arranged in our sending sending order that is

arranged in ascending order

So it will be.

So there are. Seven data points,

So the middle one is 4th.

So is 300. Formula. This particular. Computing step one is complete. Now I would have.

So. Speak.

So you might take the borders of this. 6. Everything. That is the last. About the point.

The purpose of. Demonstrate. The first step we have. The second step. Saying that, we

have taken some reason. Last. Right? Please. This.

So what now? I have the doctor? Of these stocks. Check. We need to change that. Jerry

point about. They cannot this frequency equal to 1. More. Minus.

So in all these inquiries are one. You have the division for us. But I stopped. I want to

give a procedure for this. Similar to what we have. Thank you. It's stupid. Playing. To

science. This. This is

a change. This morning play my respective frequency. This is a change. We were just

taking the summer. Step. Required. This year

So that we can offset this by something. In this sentence. In this example. 1st. Right?

Compare this mean if you look at the formula of army. Expired. Frequency district body.

Sorry.

So in order to find you in the center and I don't know. 20 slight. 1.

So that. This. 662 can you substitute? 16 divided now I got. It is over. The more 6.

It's.

So that. Point you added? Which is. Distribution is continuous. This will change the

world. Example. I want to find the TV. For this particular.

So I need to.

So here is the. Yes. I know. This is a new one. Status. 6. Now every day. I need to quit.

Frequency points. What is? 13 It is better to find. Everything says.

So the murder will remain. 2017 I want to locate the median class. How did I look at 44

divided by? I started in the beginning of the next that is 20. Pointed to lies somewhere

here.

So my immediate class is that nothing but the class it's contains. Immediate. No. Plus

use the formula to step size on the class size in each of these classes with six. Then

my my do I already want to be equal? There's nothing.

So I'm gonna use this computer. Using the formula at the beginning of the. Knowledge on

this? This function. You wanna do something? Save it. Post office. 14 is equal to 17 upon

the total. What is 6.18? Today we have seen what is how to compute median for grouped

data, particularly with continuous. Also, we have seen 2 pages of this person. One of

them is rates between your concluded that it's a good measure of dispersion. The loudest

central value or mean deviation, or. Any point? So. But still we are left with one more

reason. This person which is. Standard deviation or medians.

So we will see that in the next class. That you worked.