

~~Ops:~~

Questions related the topic [Flow]  
↳ chat; end of each topic

off-topic or general → Questions  
(end of session)  
/Audio



remedial



focus on those concepts

[ Questions tab → end of the session ]



dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | New Tab x | +

scaler.com/meetings/i/dsml-advanced-probability-statistics-remedial-2/live

DSML Advanced : Probability & Statistics Remedial -2 | Lecture

Ex: You flip a coin until either HHT or HTT shows up. Which of HHT or HTT is more likely to appear first

You are sharing your screen now

Stop Sharing

\* NOT 3 coins  
flipped simultaneously  
Pulse intuition  
cond. prob

Srikanth Varma Chekuri (You) (Screen)

00:21:57

1 2 3  
HHT or

Srikanth Varma Chekuri (You)

Chat

Notify me about Nothing

Pin a message

can we deduce that probability of HHT is twice that of HTT?

9:20 pm

9:21 pm

Syed Aaquib To: Me 9:21 pm  
2/3 and 1/3

keshav kumar To: Everyone 9:21 pm  
we stopped at 5 flips because post that pattern was repeating. is it so ?

Tai Rakesh To: Me 9:21 pm  
I thought we do only three flips and considered both of them will have equal but now its clear :)

GEOMRTT  
Start Doubt Session  
Yes No

To: Everyone  
Enable/Disable Chat  
Type message

23 People

Chat

Questions

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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

GEO MRTT

H HT or HTT

1 2 TT, TTT

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Srikanth Varma Chekuri (You) (Screen)

00:11:02

5/5

People 20

Chat

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• Syed Aaquib To: Me 9:09 pm  
not significant if the first toss is tail...so no one

• Arun MV To: Me 9:09 pm  
both not likely

• Tim Sabu To: Everyone 9:09 pm  
neither

• Tarun khatri To: Everyone 9:09 pm  
none

• Syed Aaquib To: Me 9:10 pm  
no

Start Doubt Session Yes No

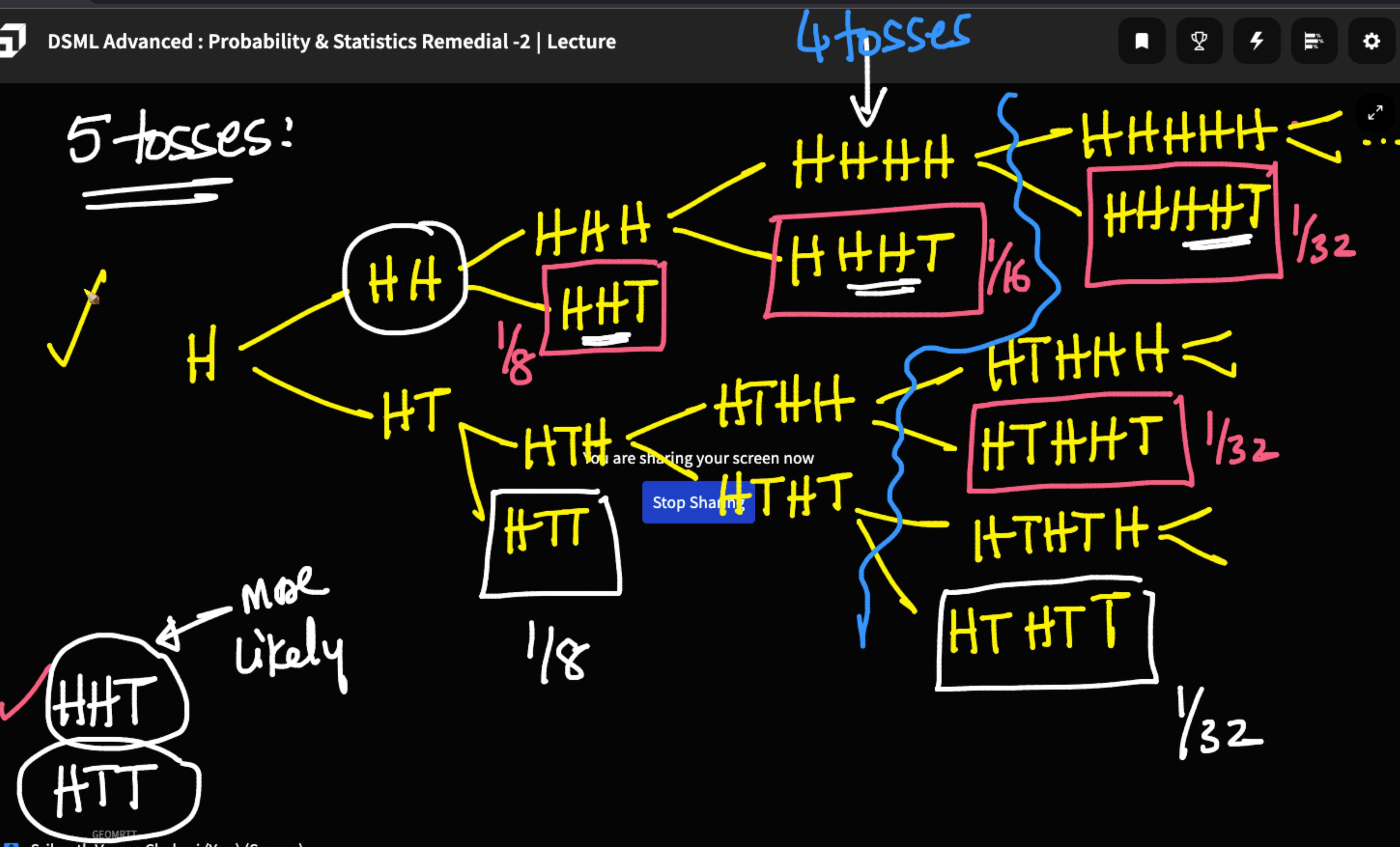
To: Everyone Enable/Disable Chat

Type message

20

DSML Advanced : Probability & Statistics Remedial -2 | Lecture

5 tosses:



Microphone icon Srikanth Varma Chekuri (You)

Chat

**Notify me about**

Nothing ▾

## Pin a message

+ ✓

● Arun MV To: Me 9:43 pm

-3 pm

1

● Syed Aaquib To: Me 9:44 pm

q=1/3

● Deepak Mittal To: Everyone 9:45 pm

2/3

● **Aayushi Jain** To: Everyone 9:45 pm

2/3

• Syed Aaquib To: Me 9:45 pm

I never thought this can be made so simple...this is so intuitive yet algebraic

To: Everyone ▾

## Enable/Disable Chat

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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

People 22

Chat

Questions

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Srikanth Varma Chekuri (You) (Screen)

00:16:43

HHH HT

TTT

1/8

1/8?

1/6

1/9

1/8

\*1/8

To: Everyone

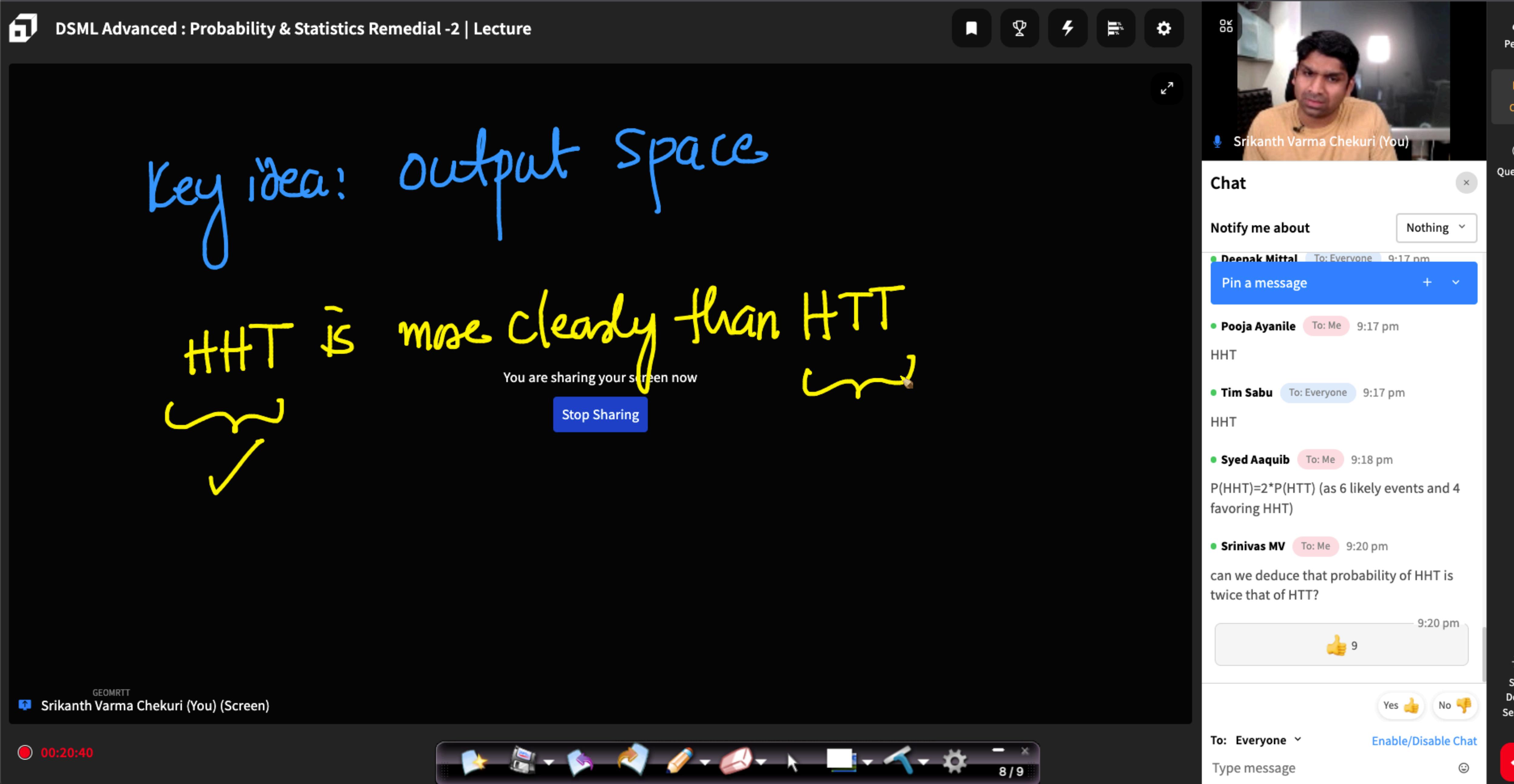
Enable/Disable Chat

Type message

Start Doubt Session

Yes No

7/7



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bookmark trophy lightning gear

People 23

Chat

Questions

GEOMRTT

Srikanth Varma Chekuri (You)

Chat

Notify me about Nothing

Pin a message +

9

Syed Aaquib To: Me 9:21 pm  
2/3 and 1/3

keshav kumar To: Everyone 9:21 pm  
we stopped at 5 flips becauseae post that pattern was repeating. is it so ?

Tai Rakesh To: Me 9:21 pm  
I thought we do only three flips and considered both of them will have equal but now its clear :)

Tai Rakesh To: Me 9:22 pm  
yeah its clear now

Start Doubt Session Yes No

To: Everyone Enable/Disable Chat

Type message

00:22:24

9/9

prob of obs HHT & HTT

2/3 1/3

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Cond. prob

[algebra & Math]

Srikanth Varma Chekuri (You) (Screen)

00:22:24

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A: event that  $\text{HTT}$  appears before  $\text{HTH}$

$P(A) = P(\text{let})$

You are sharing your screen now

Stop Sharing

If 1st toss is T  $\rightarrow$  neither pattern starts in T

$P(A|T) = P(A)$   $\rightarrow$  1st Toss being T is indep of A

Srikanth Varma Chekuri (You) (Screen)

00:26:23

00 10 / 11

People 23  
Srikanth Varma Chekuri (You)  
Chat  
Questions

Notify me about Nothing

yan its clear now

Pin a message +

0

Arun MV To: Me 9:24 pm

0

Syed Aaquib To: Me 9:24 pm

P(A)

SAVARA KALYAN To: Me 9:24 pm

p(A)

Tai Rakesh To: Me 9:25 pm

independent

Srinivas MV To: Me 9:25 pm

independent

Start Doubt Session Yes No

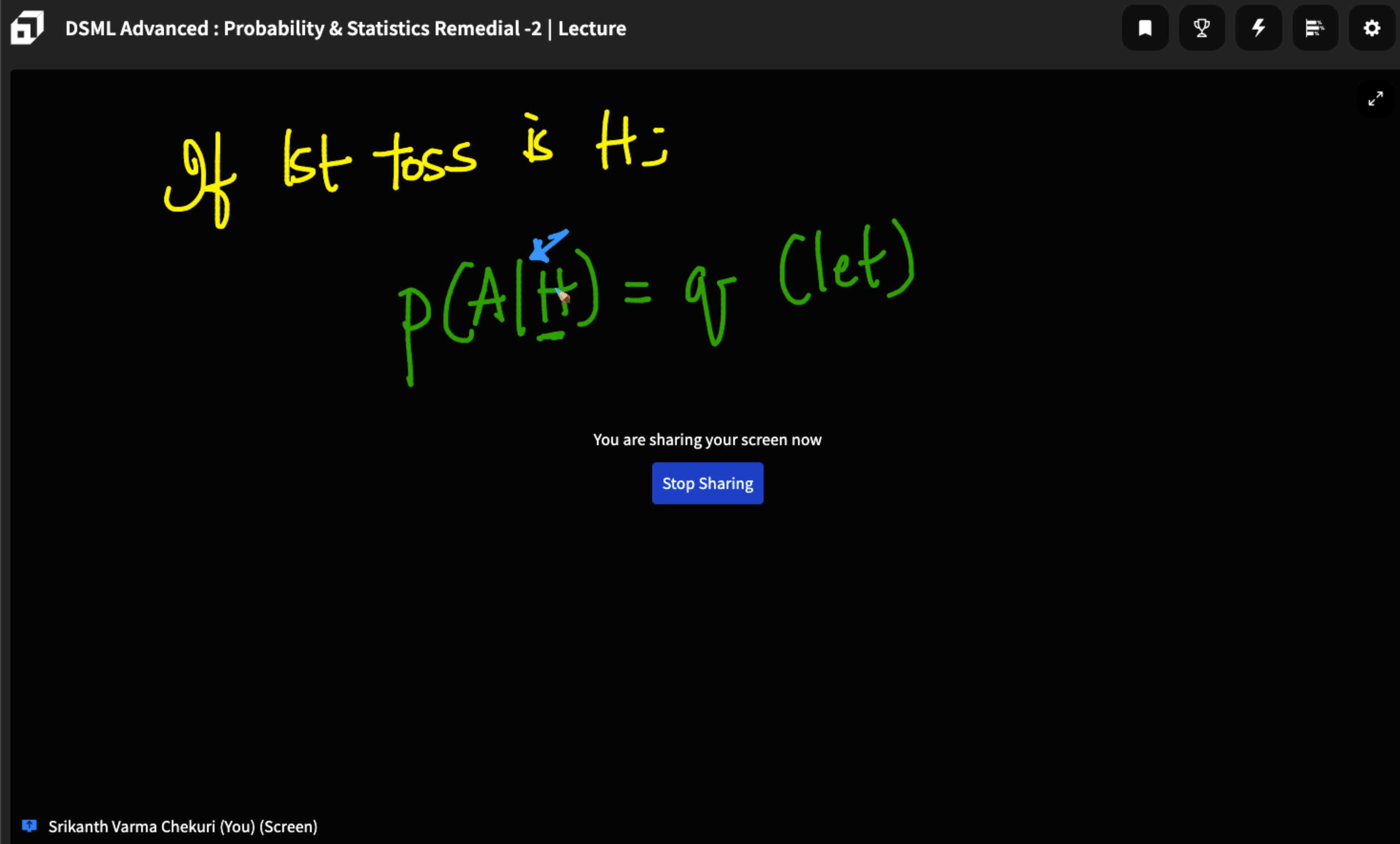
To: Everyone Enable/Disable Chat

Type message

GEOMRTT

Chat

Questions



Chat

**Notify me about**

year its clear now

Pin a message

Pin a message

100

● Arun MV To: Me 9:24 pm

100

• Syed Aaqib To: Me 9:24 pm

P(A)

SAVARA KALYAN To: Me 9:24 pm

p(A)

● **Tai Rakesh** To: Me 9:25 pm

independent

● Srinivas MV To: Me 9:25 pm

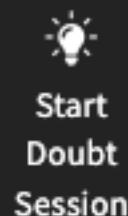
independent



To: Everyone ▾

## Enable/Disable Chat

Type message





## Subsequent throws:

2nd throw  $\rightarrow$  H Seq: HH

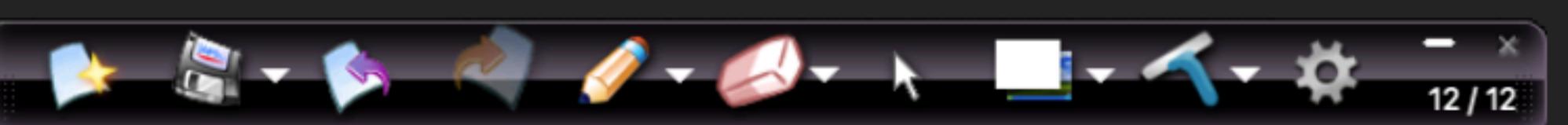
You are sharing your screen now

## Stop Sharing

\* If you keep flipping HHH ... →  
will never fall even  
matches

GEOMRTT

00:27:34



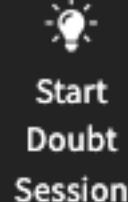
12 / 12



To: Everyone ▾

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 DSML Advanced : Probability & Statistics Remedial -2 | Lecture

\*  $P(A|H\bar{H}) = 0$

Logic 2

```
graph TD; Root[H̄] --> HH[H̄H]; Root --> HT[H̄T]; HH --> HHH1[HHH]; HH --> HHT1[HHT]; HH --> HHT2[HHT]; HT --> HHT3[HHT];
```

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Stop Sharing

A: HJT

occurs before HHT

👉 Srikanth Varma Chekuri (You) (Screen)

● 00:46:17



13 / 1

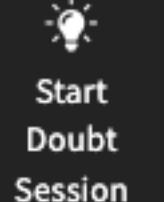


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To: Everyone ▾

### Enable/Disable Chat

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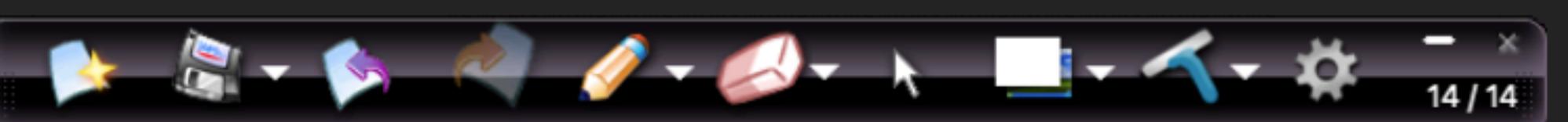
If 1st & losses are HT  
↳ 3rd loss = T  $\rightarrow$  HTT  $\Rightarrow$  A occurs

↳ 3rd toss = H  $\rightarrow$  HTH

$$P(A \mid HTH) =$$

⬆ Srikanth Varma Chekuri (You) (Screen)

● 00:32:55



Chat

**Notify me about**

Nothing ▾

• Srinivas MV To: M

For more information about the study, please contact Dr. [REDACTED] at [REDACTED].

● Arun MV To: Me 9:30 pm

never, occurring



— 9:30 pm

9:30 pm



— 9:30 pm

9:31 pm



— 9:31 pm

• Srinivas MV To: Me 9:32 pm

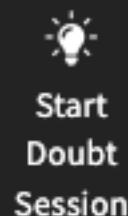
HTH



## Enable/Disable Chat

To: Everyone ▾

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 DSML Advanced : Probability & Statistics Remedial -2 | Lecture

$$\textcircled{1} \quad P(A) = p$$

$$② p(A|T) = p$$

$$③ P(A|H) = q$$

HTT }  
HTT  
HTT

$$P(A|H) = P(A | \text{HTH}) = \sqrt{9} = 3$$

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Stop Sharing

HTHTH

HTHTT

HTHHT

HTHHT

HTHTT

You are sharing your screen now

Srikanth Varma Chekuri (You)

Chat

**Notify me about**

Pin a message

● Arun MV To: Me 9:43 pm

b

• Syed Aaqib To: Me 9:44 pm

q=1/3

● Deepak Mittal To: Everyone 9:45 pm

2/3

• Asunehi Jain • Test Executive • 9445 nm

2/3

● Syed Aaqib To: Me 8:45 pm

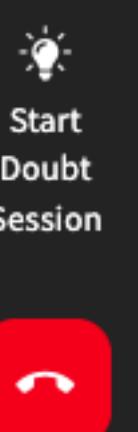
I never thought this can be made so simple...this is so intuitive yet algebraic

Yes  No 

THE INFLUENCE OF CULTURE ON PARENTING

1

To: Everyone ▾



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$P(A) = P(A \cap T) + P(A \cap H)$

$p = p(A|T)p(T) + p(A|H)p(H)$

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$p = p \cdot \frac{1}{2} + q \cdot \frac{1}{2}$

$\frac{1}{2}p = \frac{1}{2}q$

$\Rightarrow [P=0] \rightarrow [1]$

Srikanth Varma Chekuri (You) (Screen)

00:39:23

23 People

Chat

Notify me about Nothing

Pin a message

q

Srinivas MV To: Me 9:38 pm

1/2

Syed Aaquib To: Me 9:38 pm

0.5

Arun MV To: Me 9:38 pm

.5

Aayushi Jain To: Everyone 9:38 pm

1/2

Rahul Singh To: Me 9:38 pm

.5

Start Doubt Session

To: Everyone Enable/Disable Chat

Type message

16 / 17

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A video frame showing Srikanth Varma Chekuri, a man with dark hair and a yellow shirt, looking down. The video has a timestamp '00:00' in the top left corner and a watermark 'GEOMRT' in the bottom right corner.

22  
People

Chat

Questions

$$P(A|\underline{H}) = P(A|\underline{HT}) \underline{P(T)} + P(A|\underline{HH}) \underline{P(H)}$$

$$g = ? \cdot \frac{1}{2} + \theta$$

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**Stop Sharing**

$$w = \left(\frac{1}{2} + \frac{v}{2}\right) \cdot \frac{1}{2}$$

$$\Rightarrow q = 1/2$$

$$\Rightarrow q = \frac{v}{u} + \frac{1}{4} \Rightarrow \frac{3v}{u} = \frac{1}{4}$$

↑ Srikanth Varma Chekuri (You) (Screen)

● 00:44:21



17 / 1

To: Everyone ▾

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Start  
Doubt  
Session

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$P(A|HTT) = P(A|\underbrace{HTT})p(T) + P(A|\underbrace{HTH})p(H)$

$P(A|HTT) = 1 \cdot \frac{1}{2} + 0 \cdot \frac{1}{2}$

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Srikanth Varma Chekuri (You) (Screen)

00:43:49

00:43:49

18 / 18

People 22

Chat

Notify me about Nothing

Pin a message

1/2

Rahul Singh To: Me 9:38 pm .5

9:40 pm

Syed Aaquib To: Me 9:41 pm 0

Syed Aaquib To: Me 9:43 pm 1

Arun MV To: Me 9:43 pm q

GEOMRTT Yes No

To: Everyone Enable/Disable Chat

Type message

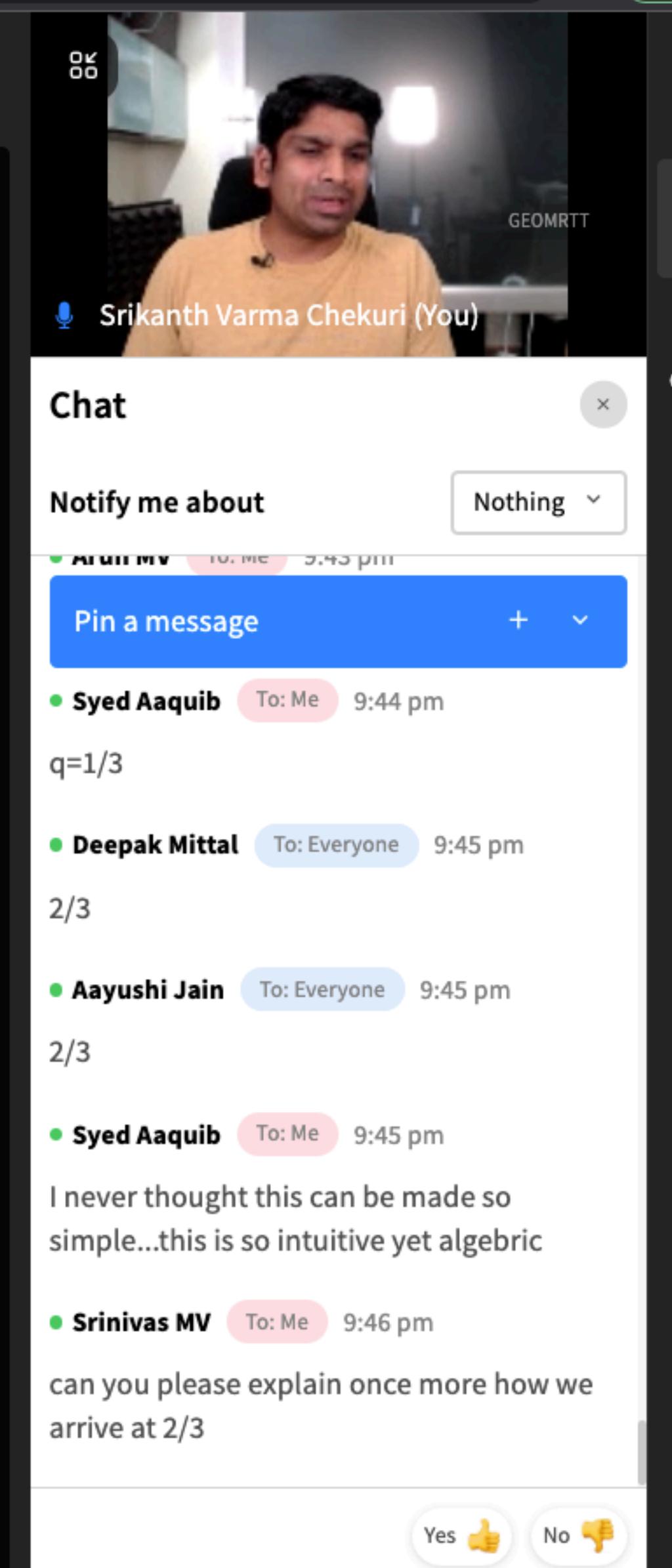
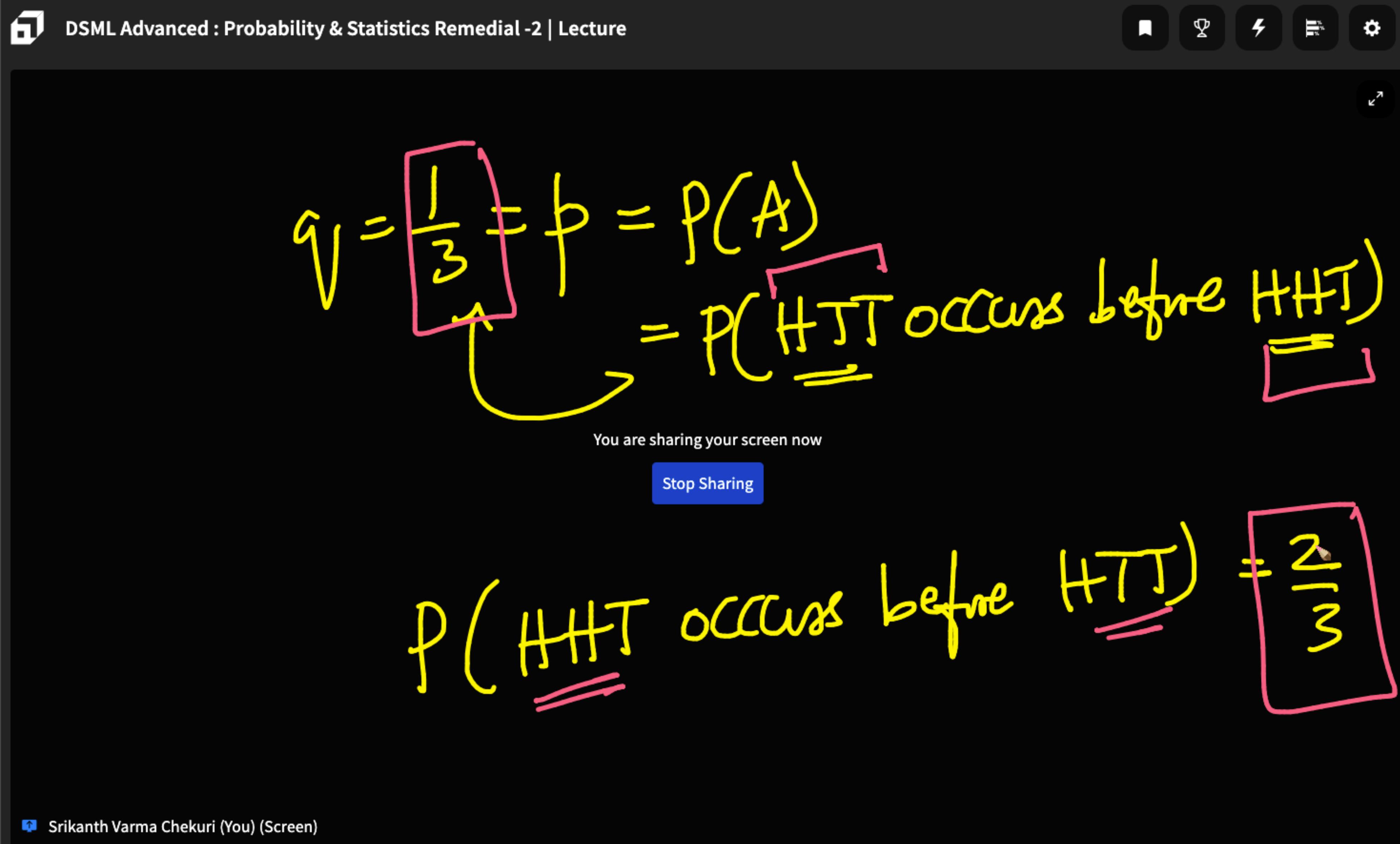
Start Doubt Session

22

Chat

Questions

Start Doubt Session



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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

Real-world applications of statistical Metrics

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Questions

trivial / Tricky }

Srikanth Varma Chekuri (You) (Screen)

00:48:40

20 / 20

People 22

Chat

Notify me about Nothing

Deepak Mittal To: Everyone 9:45 pm Pin a message + v

Aayushi Jain To: Everyone 9:45 pm 2/3

Syed Aaquib To: Me 9:45 pm I never thought this can be made so simple...this is so intuitive yet algebraic

Srinivas MV To: Me 9:46 pm can you please explain once more how we arrive at 2/3

Srinivas MV To: Me 9:47 pm ok

9:47 pm

Start Doubt Session

Yes No

To: Everyone Enable/Disable Chat

Type message

20 / 20

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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

(Q1) WFH employees XYZ  
<employees city>

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In which city do most employees live in → mode

Srikanth Varma Chekuri (You) (Screen)

00:50:52

00:50:52

21 / 21

Srikanth Varma Chekuri (You)

Chat

Notify me about Nothing

count

Pin a message

count

Safwan To: Me 9:50 pm

mean or count

Arun MV To: Me 9:50 pm

mode

keshav kumar To: Everyone 9:50 pm

mode

Syed Aaquib To: Me 9:50 pm

mode

Adyashree Mahapatra To: Me 9:50 pm

mode

GEOMRTT Yes No

To: Everyone Enable/Disable Chat

Type message

Start Doubt Session

People 22

Chat

Questions

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γ · V → City (Discrete)

Hyp, Blr, Pure, ND; 600

SD 100 200

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mode

• Syed Aaquib To: Me 9:50 pm

mode

• Adyashree Mahapatra To: Me 9:50 pm

mode

• Syed Aaquib To: Me 9:51 pm

600

• Arun MV To: Me 9:51 pm

600

• Srinivas MV To: Me 9:51 pm

600

Start Doubt Session

To: Everyone

Enable/Disable Chat

Type message

00:51:45

22 / 22

Srikanth Varma Chekuri (You)

Chat

Questions

People

 DSML Advanced : Probability & Statistics Remedial -2 | Lecture

GEOMRTT  
(Q2)

Amazon:  product prices

$\tilde{0}-1, \tilde{1}-2, \dots$

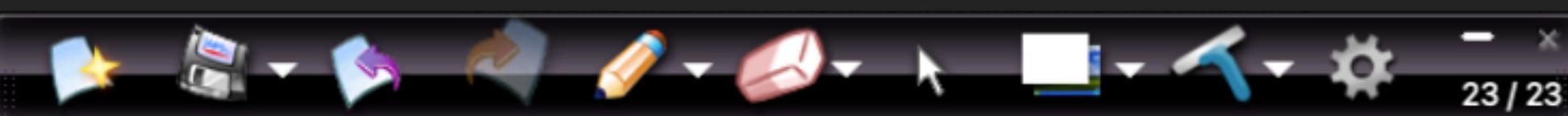


x(a) very few products @ low prices ( $< 10$ )

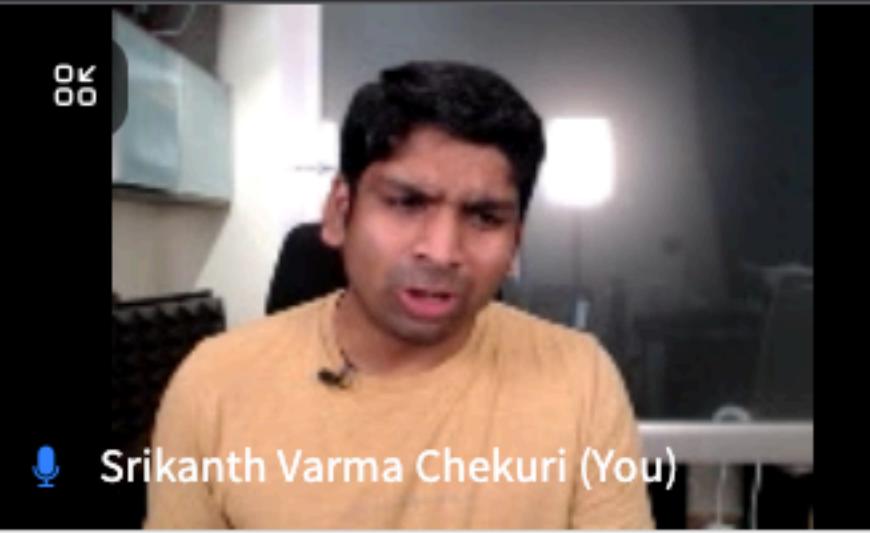
✓  
(b) Very few products @ high prices

↑ Srikanth Varma Chekuri (You) (Screen)

● 00:58:04



23 /



Chat

**Notify me about**

Nothing ▾

both as Safwan said

● Syed Aaquib To: Me 9:56 pm

diamond ring

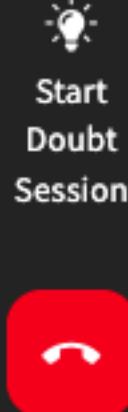
• Tim Sabu To: Everyone 9:56 pm

macbook]

sumit verma To: Me 9:56 pm

1

• Зуев Альберт 10.10.2018



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e.g of left skewed dist:

✓ population of Japan

→ carrying cap. of airplanes { rec.time for covid M<sub>1</sub>

You are sharing your screen now Stop Sharing

0 1 2 3 7

Smooth histogram

not time axis

Srikanth Varma Chekuri (You)

GEOMRTT

Chat

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- keshav kumar To: Everyone 9:59 pm aging population of japan
- Tim Sabu To: Everyone 9:59 pm overseas win of indian team
- Syed Aaquib To: Me 9:59 pm aeroplanes (carrier, military etc) are pretty costly and are more in no...charters are cheap and less in no
- Srinivas MV To: Me 10:00 pm rise in temperature over years
- Syed Aaquib To: Me 10:00 pm yes

Start Doubt Session

To: Everyone Enable/Disable Chat

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01:01:20 24 / 24

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Sample  
✓ Swedes → 1000

✓ Indians → 1000

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Stop Sharing

Compare Variability in heights

(Q) favour of std-dev  
→ not much outliers

Std-deviation =  $\sqrt{\text{Variance}}$  → MAD

IQR: 25<sup>th</sup> → 75<sup>th</sup>

Srikanth Varma Chekuri (You) (Screen)

01:07:26

25 / 26

People 22

Chat

Notify me about Nothing

Pin a message

Srinivas MV To: Me 10:05 pm working on a sample

Syed Aaquib To: Me 10:06 pm Least affected by the fluctuation of the observations

Arun MV To: Me 10:06 pm outliers

Srinivas MV To: Me 10:06 pm IQR when we have outliers

Syed Aaquib To: Me 10:07 pm no not that much

Start Doubt Session Yes No 4

To: Everyone Enable/Disable Chat

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homogeneity  
heterogeneity  
well known to  
non DS

Varience or Std-dev

VS

IQR  
MAD

DS-centric

outliers

You are sharing your screen now

Stop Sharing

MAD(swedes) << MAD(indians)

Srikanth Varma Chekuri (You) (Screen)

01:10:11

26 / 27

21 People

Chat

Notify me about Nothing

Syed Aaquib To: Me 10:06 pm Pin a message + v observations

Arun MV To: Me 10:06 pm outliers

Srinivas MV To: Me 10:06 pm IQR when we have outliers

Syed Aaquib To: Me 10:07 pm no not that much

keshav kumar To: Everyone 10:08 pm 10:07 pm

Do the two different metric convey the same intuition ?

Start Doubt Session

To: Everyone Enable/Disable Chat

Type message

Yes No

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(Q) Compare Variability of incomes in India & USA

GEOMRTT

medians

MAD

all data

outliers

IQR

25 75

You are sharing your screen now

Stop Sharing

Srikanth Varma Chekuri (You) (Screen)

01:13:05

00:00:00

27 / 27

People 20

Chat

Questions

Srikanth Varma Chekuri (You)

Notify me about Nothing

Pin a message

Srinivas MV To: Me 10:11 pm MAD/IQR

Syed Aaquib To: Me 10:11 pm MAD

Tim Sabu To: Everyone 10:12 pm MAD

Syed Aaquib To: Me 10:12 pm because IQR will reject a part of the data before 25% and 75%

Tim Sabu To: Everyone 10:12 pm variability of income, in IQR we will leave out low income and high income earners

Start Doubt Session

To: Everyone Enable/Disable Chat

Type message

Yes No

avg/  
Mean - abs-deviation

around mean

$$\textcircled{1} \quad \frac{1}{n} \sum_{i=1}^n |x_i - \bar{x}|$$

↑  
mean ( $x_i$ 's)

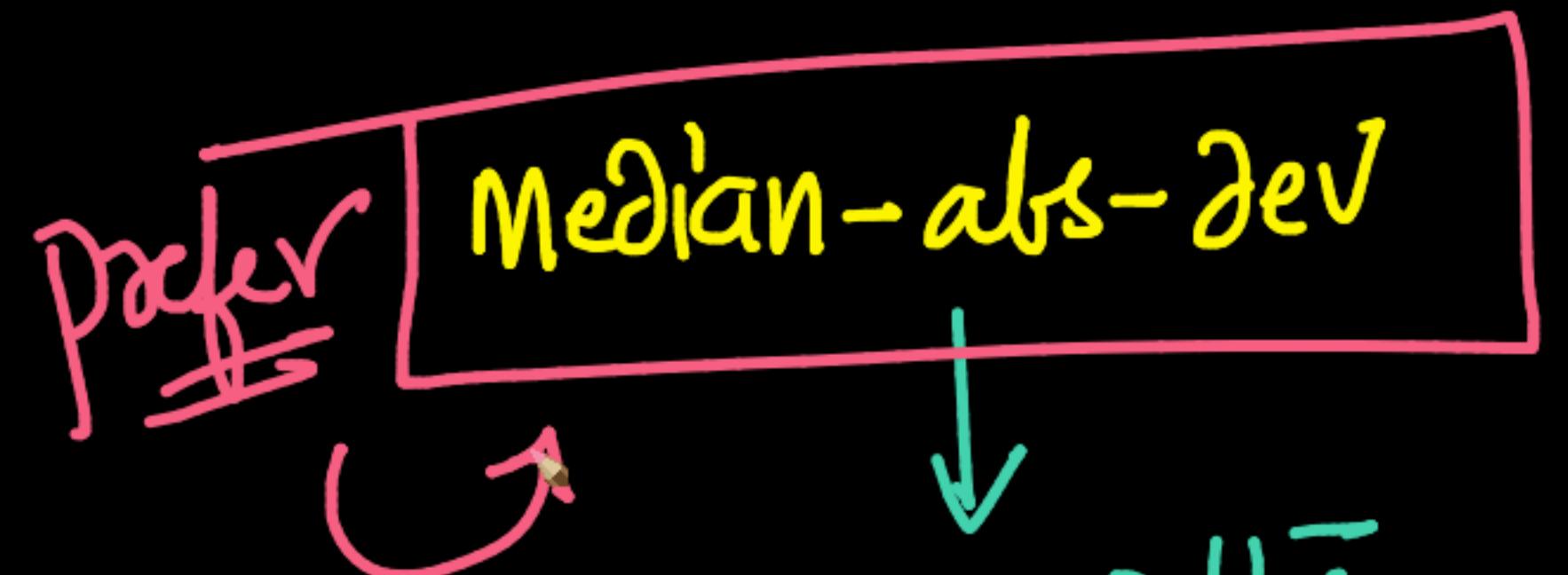
abs

around the  
median

$$\textcircled{2} \quad \frac{1}{n} \sum_{i=1}^n |x_i - \tilde{x}|$$

↑  
Median ( $x_i$ 's)

abs



$$\textcircled{3} \quad \text{Median} \left( (x_i - \tilde{x})^2 \right)$$

↑  
Median

outlier proof

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GEO MRTT

1. Mean Abs Dev (mean)

2. Mean Abs Dev (median)

3. Median abs Dev

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Stop Sharing

3>2>1

aviod problems of outliers

Srikanth Varma Chekuri (You) (Screen)

01:17:10

00:00

29 / 29

People 21

Chat

Notify me about Nothing

Tim Sabu To: Everyone 10:12 pm variability of income, in IQR we will leave out low income and high income earners

keshav kumar To: Everyone 10:16 pm 3

Sumit Verma To: Me 10:16 pm 3

Adyashree Mahapatra To: Me 10:16 pm 3,2,1

keshav kumar To: Everyone 10:16 pm 3>2>1

Start Doubt Session Yes No

To: Everyone Enable/Disable Chat

Type message

?

Questions

dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | New Tab x | +

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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

(Q)  $X_i \in \{1, 1, 2, 2, M, 6, 90\}$

**MAD** Median abs-dev

You are sharing your screen now

Stop Sharing

abs. dev  $\{0, 0, 1, 1, 2, 4, 88\}$

$MAD = 1$

Median  $\boxed{2}$

mean abs dev (around median)

$\frac{96}{7}$

Srikanth Varma Chekuri (You) (Screen)

01:23:29

00:00:00 01:23:29

21 People

Chat

Notify me about Nothing

Pin a message

median abs dev = 1 10:20 pm 1

keshav kumar To: Everyone 10:20 pm mean thing = 96/7 and median thing=1

Adyashree Mahapatra To: Me 10:21 pm mean abs dev (median) = 13.714

Adyashree Mahapatra To: Me 10:21 pm 2

keshav kumar To: Everyone 10:21 pm 2

Start Doubt Session Yes No

To: Everyone Enable/Disable Chat

Type message

GEOMRTT

Srikanth Varma Chekuri (You)

Questions

30 / 30

dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | What is an A/B Test?. This is th x | +

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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

**Q**

**Ans**

**Exp**

**Outliers**

**Sale** prices of each item sold

**SD%**

**RED**

**SD%**

**BLUE**

**right skewed**

**I**

**Sale**

You are sharing your screen now

Stop Sharing

**2** **obs:**  $\{s_1, s_2, \dots\}$

$\{s'_1, s'_2, \dots\}$

what metric should we use to compare & decide which color is better

GEOMRTT

Srikanth Varma Chekuri (You) (Screen)

01:31:33

31 / 32

People 20

Chat

Questions

Srikanth Varma Chekuri (You)

Chat

Notify me about Nothing

Arun MV To: Me 10:30 pm

Pin a message + v

applied. Median is more robust to these outliers

Safwan To: Me 10:30 pm

why there will be outliers here

Syed Aaquib To: Me 10:30 pm

right skewed so most products are above 10 \$, and this can be incorporating outliers a lot

Safwan To: Me 10:31 pm

bt why consider price not no of users

Srinivas MV To: Me 10:31 pm

maximum no of sales decides which button is good.

Start Doubt Session

Yes No

To: Everyone

Enable/Disable Chat

Type message

dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | What is an A/B Test?. This is th x | +

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right skewed → outliers are present

✓ Median → avg-behavior ✓

You are sharing your screen now

Stop Sharing

{ MAD → X Variability

Srikanth Varma Chekuri (You) (Screen)

01:33:14

20 People

Chat

Notify me about Nothing

Pin a message +

a lot

Safwan To: Me 10:31 pm

bt why consider price not no of users

Srinivas MV To: Me 10:31 pm

maximum no of sales decides which button is good.

Srinivas MV To: Me 10:32 pm

ok got it..

keshav kumar To: Everyone 10:32 pm

we are comparing sales price in two segments, hence measure of central tendency make sense rather than dispersion.

Start Doubt Session Yes No

To: Everyone Enable/Disable Chat

Type message

32 / 32

dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | What is an A/B Test?. This is th x | +

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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

GEO MRTT

Median =  $\frac{50^{\text{th}}}{\text{percentiles}}$

outliers

1st →  
2nd →  
⋮  
50th →  
⋮  
99th →

You are sharing your screen now  
Stop Sharing

Srikanth Varma Chekuri (You) (Screen)

01:35:00

33 / 33

People 20

Chat

Questions

Srikanth Varma Chekuri (You)

Chat

Notify me about Nothing

Pin a message +

50%

Arun MV To: Me 10:33 pm

Deepak Mittal To: Everyone 10:33 pm

Srinivas MV To: Me 10:33 pm

keshav kumar To: Everyone 10:34 pm

actually, i believe quintiles are best measure of dispersion.

Start Doubt Session Yes No

To: Everyone Enable/Disable Chat

Type message

20

Start Doubt Session

Yes No

Enable/Disable Chat

Type message

20

Start Doubt Session

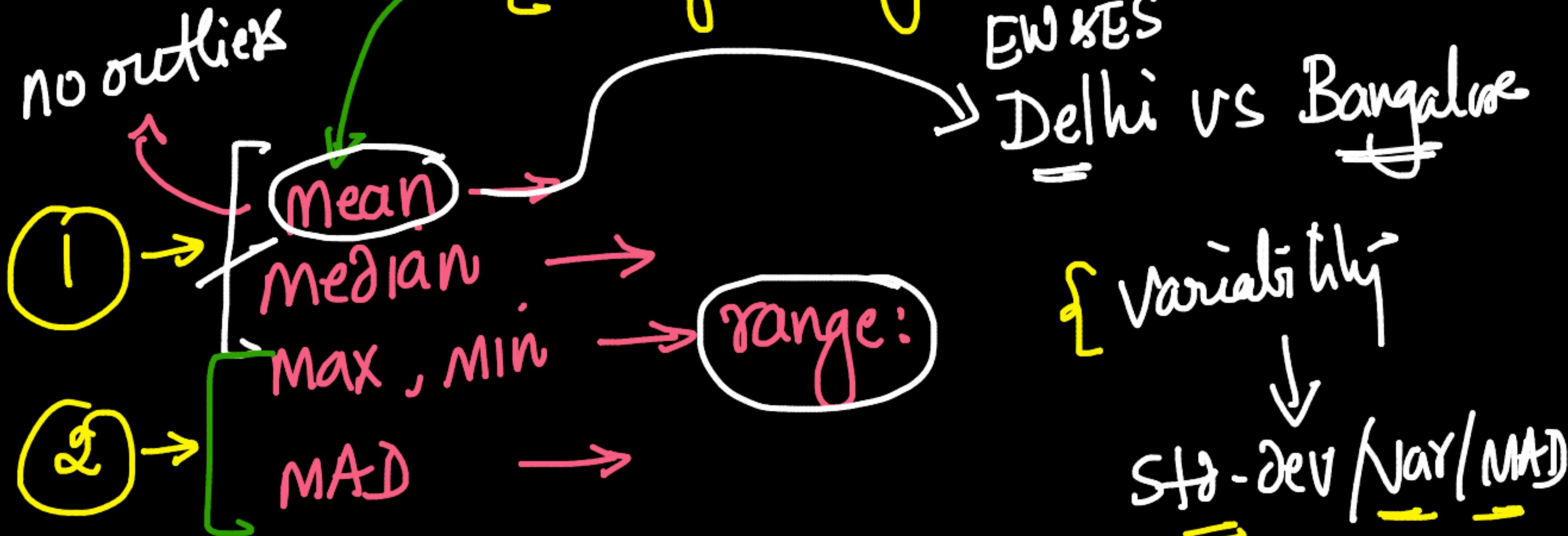
Yes No

Enable/Disable Chat

Type message



65yy retire  
temp. variation across the year  
[City → good weather]



dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | What is an A/B Test?. This is th x | +

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DSML Advanced : Probability & Statistics Remedial -2 | Lecture

MIN ✓ Max

0 | h 100 | h

You are sharing your screen now

Stop Sharing

✓ (QR): 25 | h 75 | h

Srikanth Varma Chekuri (You) (Screen)

01:40:20

00:00:00 01:40:20 02:00:00 02:20:00 02:40:00 03:00:00 03:20:00 03:40:00 04:00:00 04:20:00 04:40:00 05:00:00 05:20:00 05:40:00 06:00:00 06:20:00 06:40:00 07:00:00 07:20:00 07:40:00 08:00:00 08:20:00 08:40:00 09:00:00 09:20:00 09:40:00 10:00:00 10:20:00 10:40:00 11:00:00 11:20:00 11:40:00 12:00:00 12:20:00 12:40:00 13:00:00 13:20:00 13:40:00 14:00:00 14:20:00 14:40:00 15:00:00 15:20:00 15:40:00 16:00:00 16:20:00 16:40:00 17:00:00 17:20:00 17:40:00 18:00:00 18:20:00 18:40:00 19:00:00 19:20:00 19:40:00 20:00:00 20:20:00 20:40:00 21:00:00 21:20:00 21:40:00 22:00:00 22:20:00 22:40:00 23:00:00 23:20:00 23:40:00 24:00:00 24:20:00 24:40:00 25:00:00 25:20:00 25:40:00 26:00:00 26:20:00 26:40:00 27:00:00 27:20:00 27:40:00 28:00:00 28:20:00 28:40:00 29:00:00 29:20:00 29:40:00 30:00:00 30:20:00 30:40:00 31:00:00 31:20:00 31:40:00 32:00:00 32:20:00 32:40:00 33:00:00 33:20:00 33:40:00 34:00:00 34:20:00 34:40:00 35:00:00 35:20:00 35:40:00 36:00:00 36:20:00 36:40:00 37:00:00 37:20:00 37:40:00 38:00:00 38:20:00 38:40:00 39:00:00 39:20:00 39:40:00 40:00:00 40:20:00 40:40:00 41:00:00 41:20:00 41:40:00 42:00:00 42:20:00 42:40:00 43:00:00 43:20:00 43:40:00 44:00:00 44:20:00 44:40:00 45:00:00 45:20:00 45:40:00 46:00:00 46:20:00 46:40:00 47:00:00 47:20:00 47:40:00 48:00:00 48:20:00 48:40:00 49:00:00 49:20:00 49:40:00 50:00:00 50:20:00 50:40:00 51:00:00 51:20:00 51:40:00 52:00:00 52:20:00 52:40:00 53:00:00 53:20:00 53:40:00 54:00:00 54:20:00 54:40:00 55:00:00 55:20:00 55:40:00 56:00:00 56:20:00 56:40:00 57:00:00 57:20:00 57:40:00 58:00:00 58:20:00 58:40:00 59:00:00 59:20:00 59:40:00 60:00:00 60:20:00 60:40:00 61:00:00 61:20:00 61:40:00 62:00:00 62:20:00 62:40:00 63:00:00 63:20:00 63:40:00 64:00:00 64:20:00 64:40:00 65:00:00 65:20:00 65:40:00 66:00:00 66:20:00 66:40:00 67:00:00 67:20:00 67:40:00 68:00:00 68:20:00 68:40:00 69:00:00 69:20:00 69:40:00 70:00:00 70:20:00 70:40:00 71:00:00 71:20:00 71:40:00 72:00:00 72:20:00 72:40:00 73:00:00 73:20:00 73:40:00 74:00:00 74:20:00 74:40:00 75:00:00 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dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | What is an A/B Test?. This is th x | +

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GEOMRTT

Covid medicines

Task: How would you decide which medicine to use (Pfizer / ICMR)

per centiles

Y<sub>1, Y<sub>2, ..., Y<sub>N}</sub></sub></sub>

M<sub>1</sub>

M<sub>2</sub>

7 days

7 days

✓

✓

You are sharing your screen now

Stop Sharing

Srikanth Varma Chekuri (You) (Screen)

01:49:01

00:00

36 / 38

19 People

Chat

Srikanth Varma Chekuri (You)

Chat

Questions

Notify me about Nothing

Pin a message

keshav kumar To: Everyone 10:45 pm

m1

Sanjay Shrimali To: Me 10:45 pm

m1

Srinivas MV To: Me 10:45 pm

m1 because less recovery time

Arun MV To: Me 10:45 pm

m1, earlier recovery with more number

Deepak Mittal To: Everyone 10:46 pm

M1, because its mean is less even though median is same for both

Start Doubt Session

Yes No

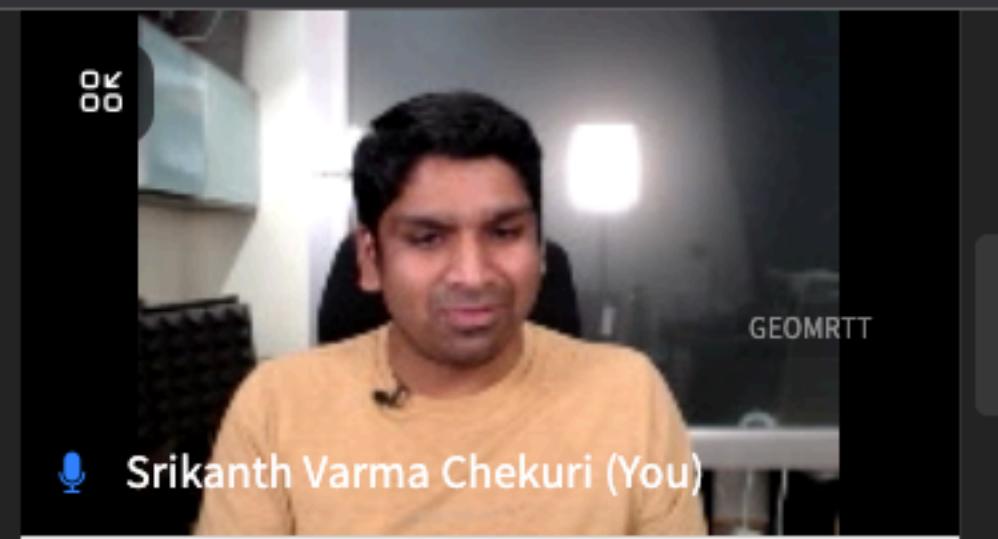
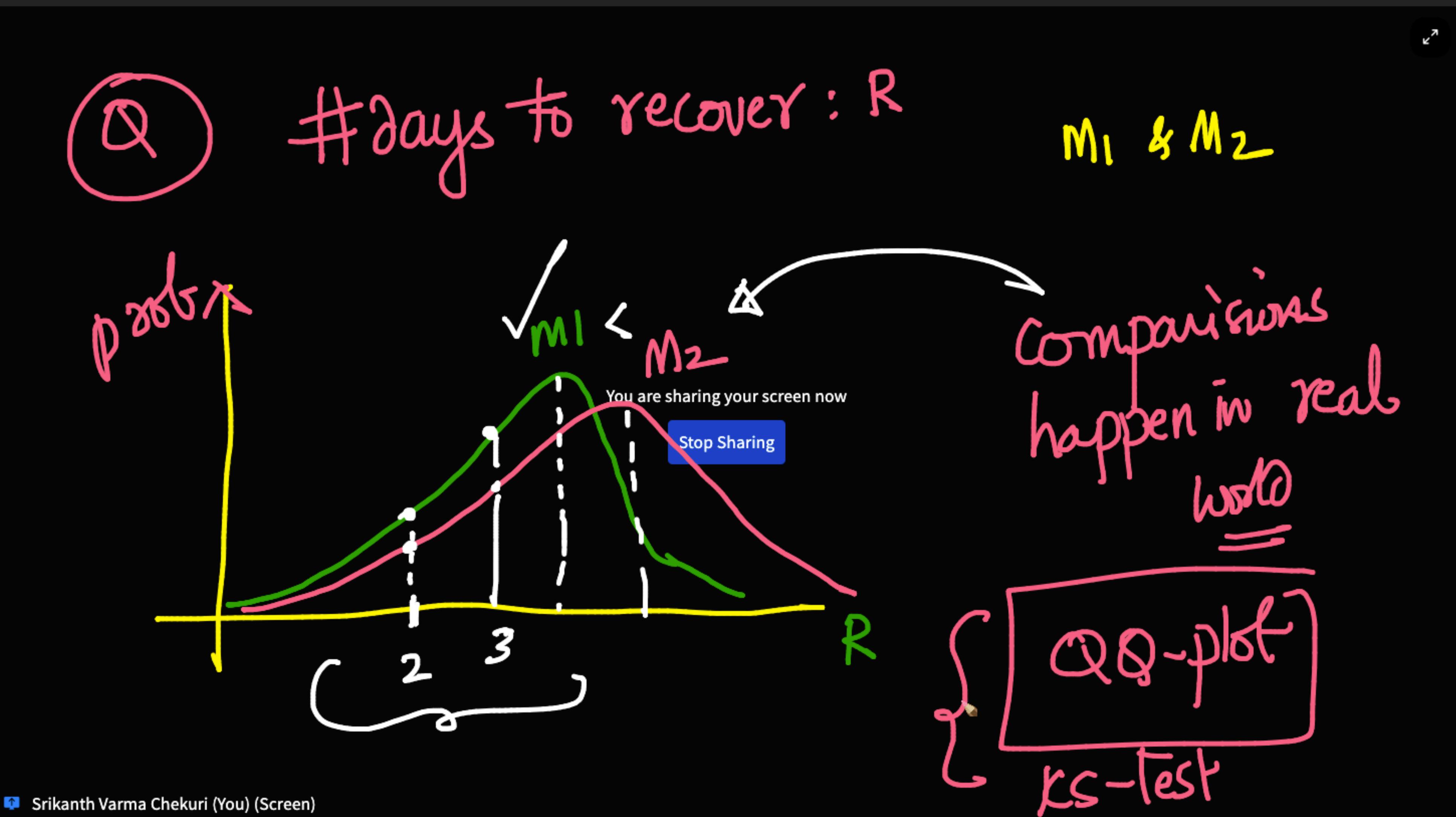
To: Everyone

Enable/Disable Chat

Type message

36 / 38

 DSML Advanced : Probability & Statistics Remedial -2 | Lecture



Chat

**Notify me about**

Nothing ▾

Pin a message

+ -

- **keshav kumar** To: Everyone 10:45 pm  
m1
  - **Sanjay Shrimali** To: Me 10:45 pm  
m1
  - **Srinivas MV** To: Me 10:45 pm  
m1 because less recovery time
  - **Arun MV** To: Me 10:45 pm  
m1, earlier recovery with more number
  - **Deepak Mittal** To: Everyone 10:46 pm  
M1, because its mean is less even though median is same for both

1

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Smoothed hist ~ dist

sale · prices

You are sharing your screen now

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Srikanth Varma Chekuri (You) (Screen)

01:48:16

19 People

Chat

Notify me about Nothing

Pin a message

keshav kumar To: Everyone 10:45 pm

m1

Sanjay Shrimali To: Me 10:45 pm

m1

Srinivas MV To: Me 10:45 pm

m1 because less recovery time

Arun MV To: Me 10:45 pm

m1, earlier recovery with more number

Deepak Mittal To: Everyone 10:46 pm

M1, because its mean is less even though median is same for both

Start Doubt Session

To: Everyone Enable/Disable Chat

Type message

38 / 38

dsml-course/Probability Distrib x | dsml-course/Probability and St x | InterviewBit Software Services x | Live | DSML Advanced : Pro x | What is an A/B Test?. This is th x | +

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# days to recover

$P(R \leq 3) = P(R=0) + P(R=1) + P(R=2)$

histogram

You are sharing your screen now

Stop Sharing

what percentage of patients get cured in ≤ 3 days

$$\begin{aligned} & 0 + 0.1 + 0.15 \\ & + 0.2 \\ & = 0.45 \end{aligned}$$

Srikanth Varma Chekuri (You) (Screen)

01:56:04

39 / 39

People 19

Chat

Notify me about Nothing

Pin a message

40 percent

Syed Aaquib To: Me 10:54 pm area under (0-3)/ Total area under curve

SAVARA KALYAN To: Me 10:54 pm  $p(x \leq 3) = p(x=0+x=1+x=2)$

keshav kumar To: Everyone 10:55 pm  $0.2 / (0.3 + (0.3 - 0.1))$

10:56 pm

1

Syed Aaquib To: Me 10:56 pm yes

Start Doubt Session

To: Everyone Enable/Disable Chat

Type message

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post

$p(x=1)$

$X \in \{1, 2, 3, 4, 5\}$

Mutually exclusive exhaustive

discrete r.v

$\{p(x=1) + p(x=2) + \dots + p(x=5)\} = 1$

You are sharing your screen now

Stop Sharing

Total area under histogram  $\rightarrow$  Sum of areas of rectangles

Srikanth Varma Chekuri (You) (Screen)

01:59:55

40 / 40

00

People 19

Chat

Questions

Srikanth Varma Chekuri (You)

Chat

Notify me about Nothing

Pin a message

yes 10:56 pm

Srinivas MV To: Me 10:58 pm

sum

Syed Aaquib To: Me 10:58 pm

some of all heights

Sumit Verma To: Me 10:59 pm

1

Arun MV To: Me 10:59 pm

1

Start Doubt Session

GEOMRTT

Yes No

To: Everyone

Enable/Disable Chat

Type message

...

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GEOMLTT

area Under any histogram  $\rightarrow 1$

Smoothed histogram

You are sharing your screen now

Stop Sharing

disb

Srikanth Varma Chekuri (You) (Screen)

02:01:08

41 / 41

People 19

Chat

Srikanth Varma Chekuri (You)

Notify me about Nothing

Pin a message

sum

Syed Aaquib To: Me 10:58 pm some of all heights

Sumit Verma To: Me 10:59 pm 1

Arun MV To: Me 10:59 pm 1

Syed Aaquib To: Me 11:01 pm yes...I knew this approach but previous one was more easy

11:01 pm

Start Doubt Session

Yes No 3

To: Everyone Enable/Disable Chat

Type message

Update

?

Questions

{ Prob. dist  $\rightarrow$  PMF ; CDF ; PDF  
↓  
Commonly & Code

# You have left the meeting

## We get frequent requests for your notes!

Notes written by you helps in understanding the topic better. You can upload the notes in two simple steps mentioned below

- 1 Scan the QR code with your iPad

Scanner should be present in the top menu on your iPad

- 2 Upload Notes on the generated link

All notes uploaded will be visible in the saved version of this session



OR

Drag and drop files or [click here to upload](#)

Files Uploaded from your computer appear here

Safari