

REPORT JUNE 16

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Course:	GreatLearning	USN:	4a17ec071
Topic:	Statistical Learning	Semester & Section:	6th sem b
Github Repository:	Poorvi-2000		

FORENOON SESSION DETAILS

Image of session

The screenshot displays a web browser window with multiple tabs open. The active tab shows a Great Learning course page for 'Statistical Learning'. The page features a sidebar on the left with a 'Content' section listing various topics, including 'Agenda', 'Case study on statistics and Probability Theory', 'Solution for case study' (which is currently selected), 'Introduction to Probability', 'Rules for Probability calculation', 'Bayes' Theorem', and 'Normal Distribution'. The main area of the page shows a video of a lecturer standing in front of a whiteboard, addressing a group of students seated at desks with laptops. Below the video, there is a rating prompt: 'How would you rate this video' followed by five stars.

Report –

Agenda;

- **Case study for Statistics**
- **Probability and its Types**
- **Bayes Theorem**
- **Normal Distribution and Bell Curve**

```
setwd("F:/SMDM/Data")  
mydata=read.csv("Health.csv",header=TRUE)
```

```
attach(mydata)
```

```
mydata names(mydata)
Frequency=table(work)
mode=names(Frequency)[Frequency==max(Frequency)] Mode
hst(work,col="Red") library(lattice)
histogram(!work|factor(hospital)) mean(work) sd(work)
Mean=x(mean(Work),mean(Pay),mean(Promotion))
data.frame(Mean,row.names=c("Work","Pay","Promotion"))
Sigma=c(sd(Work),sd(Pay),sd(Promotion)) CV=Sigma/Mean
data.frame(Mean,Sigma,CV,row.names=c("work","Pay",Promotion))
hist(Promotion) boxplot(Work,horizontal=TRUE)
boxplot(Promotion,horizontal=TRUE)
boxplot(work~Hospital,horizontal=TRUE)
by(mydata, INDICES=Hospital, FUN=Summary)
boxplot(Work,Pay,Promotion,horizontal=TRUE)
```

