

Sheth I.u.j. And sir m.v. college of arts science and commerce

Practical no. 4 mod2

Aim: .Performing one-sample t-tests using t.test() ®

The screenshot shows the RStudio interface with the following content:

```
1 # Read the CSV file
2 market_data <- read.csv("Agriculture_price_dataset.csv")

# View the dataset
head(market_data)

# One-sample t-test
t_test_result <- t.test(market_data$Modal_Price, mu = 115)

# View result
print(t_test_result)
```

Output:

```
One Sample t-test

data: market_data$Modal_Price
t = 1001.1, df = 737391, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 115
95 percent confidence interval:
 2469.865 2479.104
sample estimates:

```

STATE	District.Name	Market.Name	Commodity	Variety	Grade	Min_Price	Max_Price
1	Maharashtra	nashik	Wheat	Maharashtra	2189	2172	2399
2	Maharashtra	satara	Patan	Other	FAQ	1000	1500
3	Uttar Pradesh	mainpuri	Bewar	Potato	Local	FAQ	800
4	Rajasthan	chittorgarh	Nimbahera	Wheat	Other	FAQ	2040
5	Rajasthan	pratapgarh	Pratapgarh	Onion	Other	FAQ	476
6	Rajasthan	bharatpur	Bayana	Onion	FAQ	1000	1000

Modal_Price Price.Date

	Modal_Price	Price.Date
1	2300	6/6/2023
2	1250	6/6/2023
3	810	6/6/2023
4	2300	6/6/2023
5	617	6/6/2023
6	1000	6/6/2023

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Output:

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One Sample t-test

data: market_data$Modal_Price
t = 1001.1, df = 737391, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 115
95 percent confidence interval:
 2469.865 2479.104
sample estimates:
mean of x
 2474.485

> print("simran s113")
[1] "simran s113"
> |
```

Name: Simran s113