Day 10 Notes

Hypothesis 1: -

Null Hypothesis:

The mean age of an employee who has attrite is found to be 33 with a standard deviation of 9.67

Alternative Hypothesis:

The mean age of an employee who has attrite is not equal to 33

To determine if this is true, a sample of 50 attrite employees was taken and their mean age was found to be 33.

Hypothesis 2: -

Null Hypothesis:

The mean monthly income of attrite employees was found to be Rs.61,682 with a standard deviation of 44792.

Alternative Hypothesis:

The mean monthly income of attrite employees is not Rs.61,682.

In order to determine if this is true, a sample of 50 attrite employees was taken and their mean monthly income was found to be Rs.63,648.

Hypothesis 3: -

Null Hypothesis:

The mean years at company of attrite employees was found to be greater than or equal to 4 years was 9.06 with a standard deviation of 6.46.

Alternative Hypothesis:

The mean years at company of attrite employees is less than or equal to 4 years.

In order to determine if this is true, a sample of 50 attrite employees was taken at random and their mean years at the company was found to be 8 years

Hypothesis 4: -

Null Hypothesis:

The mean age of employees who have not attrite is found to be equal to 37 years with a standard devaition of 8.88.

Alternative Hypothesis:

The mean age of employees who have not attrite is not equal to 37 years

In order to test this claim, a sample of 50 employees who have not attrite was taken at random and their mean age was found to be 37

Hypothesis 5: -

Null Hypothesis:

Mean of total working years of attrite employees was found to less than or equal to 10 years with a standard deviation of 7.16

Alternative Hypothesis:

Mean of total working years of attrite employees is greater than 10 years.

In order to test this claim, a sample of 50 employees who have attrite was taken at random and their mean working years was found to be 8

Hypothesis 6: -

Null Hypothesis:

The average number of years spent by an attrite employee with current manager was found to be equal to 2 with a standard deviation of 2.85

Alternative Hypothesis:

The average number of years spent by an attrite employee with current manager is not equal to 2.85.

In order to test this claim, a sample of 50 employees who have attrite was taken at random and their average number of years spent with current manager was found to be equal to 2.86

Hypothesis 7: -

Null Hypothesis:

The average number of years spent by a non-attrite employee with current manager was found to be greater than or equal to 3 with a standard deviation of 4.36

Alternative Hypothesis:

The average number of years spent by a non-attrite employee with current manager is less than 5.

In order to test this claim, a sample of 50 employees who have not attrite was taken at random and their average number of years spent with current manager was found to be equal to 5.92

Hypothesis 8: -

Null Hypothesis:

The mean percentage in salary hike of the attrite employees is greater than or equal to 15% with a standard deviation of 3.77

Alternative Hypothesis:

The mean percentage in salary hike of the attrite employees is not less than 15

In order to test this claim, a sample of 50 employees who have attrite was taken at random and mean percentage in their salary hike was found to be equal to 14.80%

Hypothesis 9: -

Null Hypothesis:

The mean salary of attrite employees who have worked in more than 5 companies is found to be Rs.58,937 with a standard deviation of 46344

Alternative Hypothesis:

The mean salary of attrite employees who have worked in more than 5 companies is not equal to Rs.58,937

In order to test this claim, a sample of 50 employees who have attrite and worked in more than 5 companies was taken at random and mean salary was found to be Rs 57,679

Hypothesis 10: -

Null Hypothesis:

The mean percentage in salary hike of the attrite employees who took training more than 4 times in the previous year is found to be greater than or equal to 15%

Alternative Hypothesis:

The mean percentage in salary hike of the attrite employees who took training more than 4 times in the previous year is found to be less than 15%

In order to test this claim, a sample of 50 employees who have attrite and took training more than 4 times in the previous year was taken at random and their mean percentage in salary hike was found to be 15.78%