

Assignment 4

Literature, Russian Literature



Assignment 4 SUMMARY OUTPUT Regression Statistics Multiple R 0. 728985

R Square 0. 531419 Adjusted R Square

0. 511895

Standard Error

11. 88148

Observations

26

ANOVA

df

SS

MS

F

Significance F

Regression

1

3842. 429

3842. 429

27. 21852

2. 4E-05

Residual

24

3388. 071

141. 1696

Total

25

7230.5

Coefficients

Standard Error

t Stat

P-value

Lower 95%

Upper 95%

Lower 95.0%

Upper 95.0%

Intercept

-0.39641

3.68541

-0.10756

0.915238

-8.00272

7.209904

-8.00272

7.209904

0

0.57807

0. 110802

5. 217137

2. 4E-05

0. 349385

0. 806754

0. 349385

0. 806754

RESIDUAL OUTPUT

Observation

Predicted 6

Residuals

1

43. 53688

14. 46312

2

4. 228148

-7. 22815

3

7. 696565

-4. 69657

4

15. 78954

15. 21046

5

20. 4141

7. 585903

6

31. 97549

-3. 97549

7

15. 78954

5. 21046

8

3. 072009

6. 927991

9

11. 16498

-29. 165

10

15. 78954

-22. 7895

11

-0. 39641

14. 39641

12

11. 16498

-6. 16498

13

35. 44391

16. 55609

14

3. 072009

6. 927991

15

11. 16498

-1. 16498

16

23. 88251

-2. 88251

17

23. 88251

-16. 8825

18

38. 91232

-11. 9123

19

3. 072009

6. 927991

20

10. 00884

-4. 00884

21

4. 228148

-8. 22815

22

-0. 39641

3. 396409

23

19. 25796

1. 742043

24

16. 94568

5. 054321

25

7. 696565

13. 30343

26

-0. 39641

1. 396409

The coefficient is significantly different from zero. The coefficient 0. 5780696 is considerably larger than the significance level, $\alpha = 0. 05$. Therefore, the decision is to reject the null hypothesis. Therefore, the independent variable is held as the explanatory variable. This means that the evidence obtained is sufficient to safely determine that the linear relationship between the variables x and y. this is owing to the fact that the correlation coefficient is sufficiently different from 0

The coefficient is not significantly different from 1. The coefficient 0. 5780696 is considerably larger than the confidence level, $\alpha = 0. 05$. With a P values that is significantly less than the confidence level Therefore, the decision is to reject the null hypothesis. Therefore, the independent variable

is held as the explanatory variable. This means that the evidence obtained is sufficient to safely determine that the linear relationship between the variables x and y . this is owing to the fact that the correlation coefficient is sufficiently different from 1.

Works Cited

Vogt, Paul W and Burke Johnson. Correlation and regression analysis. Los Angeles: SAGE, 2012. Print.