Regression Outputs

Environmental Quality Score vs Distance from Liverpool Street Station OLS

Call:

lm(formula = envdata$`Environmental Quality Score` ~ envdata$`Metres from the start (A)`)

Residuals:

Min 1Q Median 3Q Max

-4.8456 -1.2735 0.3065 1.9788 2.6377

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 18.805417 1.247378 15.076 3.33e-08 \*\*\*

envdata$`Metres from the start (A)` -0.005866 0.001859 -3.155 0.0102 \*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 2.482 on 10 degrees of freedom

Multiple R-squared: 0.4989, Adjusted R-squared: 0.4488

F-statistic: 9.957 on 1 and 10 DF, p-value: 0.01024

Pedestrian flow vs Distance from Liverpool Street Station OLS

Call:

lm(formula = envdata$Pflow ~ (envdata$`Metres from the start (A)`)^2)

Residuals:

Min 1Q Median 3Q Max

-56.975 -37.718 -7.726 26.772 101.067

Coefficients:

Estimate Std. Error

(Intercept) 146.93326 26.26441

envdata$`Metres from the start (A)` -0.15266 0.03915

t value Pr(>|t|)

(Intercept) 5.594 0.000229 \*\*\*

envdata$`Metres from the start (A)` -3.900 0.002961 \*\*

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 52.26 on 10 degrees of freedom

Multiple R-squared: 0.6033, Adjusted R-squared: 0.5637

F-statistic: 15.21 on 1 and 10 DF, p-value: 0.002961