

<pre>## Call: ## lm(formula = Fire_NoFire ~ Max.of.temperature + Max.of.soil_temperature + ## hfi, data = clean_data) ## ## Residuals: ## Min 1Q Median 3Q Max ## -0.8441 0.1619 0.1937 0.2125 0.3619 ## ## Coefficients: ## Estimate Std. Error t value Pr(> t) ## (Intercept) 7.887e-01 1.135e-01 6.950 6.59e-12 *** ## Max.of.temperature 1.086e-02 6.185e-03 1.756 0.0795 . ## Max.of.soil_temperature -1.003e-02 7.070e-03 -1.419 0.1563 ## hfi -9.367e-06 4.483e-06 -2.089 0.0369 * ## --- ## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 ## ## Residual standard error: 0.4052 on 996 degrees of freedom ## Multiple R-squared: 0.007318, Adjusted R-squared: 0.004328 ## F-statistic: 2.447 on 3 and 996 DF, p-value: 0.06239</pre>	<pre>## Call: ## lm(formula = Fire_NoFire ~ Max.of.temperature + Max.of.soil_temperature + ## Max.of.soil_moisture + fwi + ros + sfc + tfc + bfc + hfi + ## estarea, data = clean_data) ## ## Residuals: ## Min 1Q Median 3Q Max ## -1.00472 0.09985 0.17174 0.21613 0.59986 ## ## Coefficients: ## Estimate Std. Error t value Pr(> t) ## (Intercept) 6.000e-01 1.821e-01 3.296 0.001017 ** ## Max.of.temperature 1.546e-02 6.497e-03 2.380 0.017523 * ## Max.of.soil_temperature -1.419e-02 7.843e-03 -1.810 0.070660 . ## Max.of.soil_moisture -1.559e-01 1.819e-01 -0.857 0.391636 ## fwi 1.202e-02 3.514e-03 3.422 0.000648 *** ## ros -9.388e-02 2.052e-02 -4.575 5.37e-06 *** ## sfc 7.427e-01 1.373e-01 5.410 7.91e-08 *** ## tfc -7.252e-01 1.373e-01 -5.282 1.57e-07 *** ## bfc 1.518e-03 4.648e-03 0.327 0.743998 ## hfi 8.891e-05 2.190e-05 4.060 5.30e-05 *** ## estarea -1.004e-03 4.120e-03 -0.244 0.807533 ## --- ## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1 ## ## Residual standard error: 0.3971 on 989 degrees of freedom ## Multiple R-squared: 0.05327, Adjusted R-squared: 0.04369 ## F-statistic: 5.565 on 10 and 989 DF, p-value: 4.168e-08</pre>		
lm_model_2	Residuals	lm_model	1559
The residuals have a range from -0.8441 to 0.3619.		The residuals have a range from -1.005 to 0.59986.	
Coefficient Significance:			
Lm_model_2 has 3 significant predictors		Lm_model has more significant predictors, potentially capturing more complexity.	
Model Fit			
Lm_model_2: Multiple R-squared is 0.007318, and Adjusted R-squared is 0.004328.		Lm_model: Multiple R-squared is 0.05327, and Adjusted R-squared is 0.04369.	
Overall Model Significance:			
F-statistic is 2.447 with a p-value of 0.06239.		F-statistic is 5.565 with a p-value of 4.168e-08.	
MSE (mean squared error)			
0.1635		0.1559	