poli170a

Kelly Gong

2024-05-31

```
merged_df <- read_csv("/Users/kellygong/Downloads/merged_df.csv")</pre>
## Rows: 87 Columns: 12
## -- Column specification -----
## Delimiter: ","
## dbl (12): zipcode, crime_count, license_count, population, poverty, density,...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
# Fit the linear model with variables
full_model <- lm(crime_density ~ alcohol_density + density, data=merged_df)</pre>
# Print the summary of the model
summary(full_model)
##
## Call:
## lm(formula = crime_density ~ alcohol_density + density, data = merged_df)
## Residuals:
                                                 Max
                    1Q
                          Median
## -0.135506 -0.026923 -0.003233 0.023903 0.233853
## Coefficients:
                    Estimate Std. Error t value Pr(>|t|)
## (Intercept)
                   1.860e-02 1.003e-02 1.855
                                                   0.067 .
## alcohol density 6.689e+01 7.025e+00 9.522 5.29e-15 ***
```

% Table created by stargazer v.5.2.3 by Marek Hlavac, Social Policy Institute. E-mail: marek.hlavac at gmail.com % Date and time: Mon, Jun 03, 2024 - 12:26:08 % Requires LaTeX packages: dcolumn

Table 1: Results

	D 1 . W . 11
	Dependent Variable
	Crime Density
Alcohol Density	66.893***
	(7.025)
Population Density	0.00002***
	(0.00000)
Constant	0.019*
	(0.010)
Observations	87
\mathbb{R}^2	0.564
Adjusted R ²	0.554
Residual Std. Error	0.050 (df = 84)
F Statistic	$54.357^{***} (df = 2; 84)$
Note:	*p<0.1; **p<0.05; ***p<