Assignment Project Exam Help Spatial Data Science II

https://powcoder.com

Office PY3261S://powcoder.com

Office Hours: By Appointment

Lectures:

1:10ph tot3:00pm // phosod Coder.com

- PRA0101, 9:10am to 11:00am (Thursday)
- PRA0102, 11:10am to 1:00pm (Thursday)
 PRA0107, 11:10am to 1:00pm (Thursday) OWCOCET

Course Description

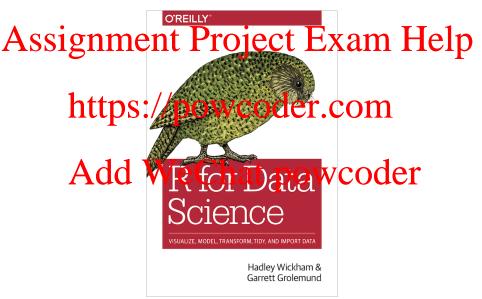
A Significant part of the standard of the stan

advanced statistical methods and their use in a spatial context in physical social, and environmental sciences. The course covers theories, methods, and applications geared towards helping students develop an understanding of the important theoretical concepts in spatial data analysis, and gain practical experience in application of patial statistics to a pariety of physical social and environmental problems using advanced statistical software. [24L, 12D]

12P]

Course Text

This course uses readings that are highlighted in the course outline.



The practice or science of collecting and analyzing numerical data in large nantices especially for the our science of Infection Infecti

What is my goal in this course?

Assignment Project Exam Help

I wanhtitpis app powcode fuetom

```
A <- a * 2 # R is case sensitive
printates://powcoder.com
```

```
## [1] 42
```

print Add WeChat powcoder

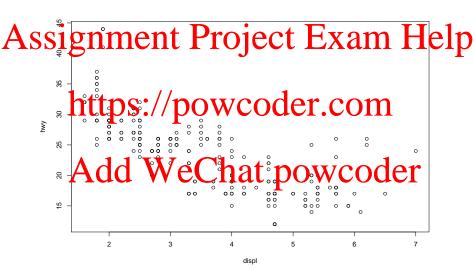
```
## [1] 84
```

Course Objectives II

Assignment Project Exam Help Very log of data visualization using the

- prevelop an understanding of data visualization using the grammer of graphics.
- Apply the grammar of graphics using ggplot2 in R (Wickham 1011) PS.//POWCOGET.COM
- ▶ DEMO: Plot EPA fuel efficiency data on the next slide
 - hwy = highway miles per gallon

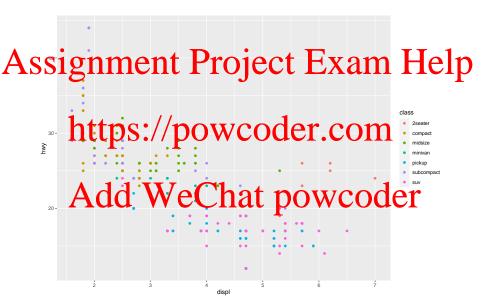
Adip eligible displacement flitres owcoder



Assignment Project Exam Help https://powcoder.com

```
ggpl Add = WeChat powcoder
geom_point(mapping = aes(x = displ, y = hwy))
```

Modify the Aesthetics: Include car class information



- Learn how to select an appropriate statistical approach
- Indetsians the challenger that of the modeling data
 Explore cognitive bias and how it may affect your analysis
- Explore cognitive bias and how it may affect your analysis (Haselton, Nettle, and Andrews 2015)

```
## [1] "Fit a linear model".

**Ssignment Project Exam Help

## lm(formula = hwy ~ disp1, data = mpg)
    https://powcoder.com
                 Estimate Std. Error
 ##
 ## (Intercept) 35.697651 0.7203676 2.123519e-125
                We@hat*poweoder
     [1] "Explanatory ability"
     [1] 0.5850056
```

Course Marks

Δss	ASSESSMENT STRUCTURE AND	Proje	ct Exam F	Help
	Iten	Weight	Due Date (5:00 pm)	reip
	Tutorial 1	5%	Jan 20	
	Tutorial 2	5%	Jan 27	
	Tutor 213444	011700	or Mom	
	Tutor al 4 CU DO • / / D		UCI. WOIII	
	Tutorial 5	5%	Mar 09	
	Assignment 1	15%	Feb 24	
	Assignment 2	15%	Mar 23	
	Assignment (noweoder	
	Pop Quiz	10%	In-Class	

^{*}Late penalties occur if an assignment is not submitted by the due date and time, which is determined by Quercus. Please ensure enough time to upload files.

Figure 2: How are you graded?

Reviehttpes://powcoder.com

This course uses free and open-source software (FOSS)

https://powcoder.com

R: A statistical programming language

RStuda derelowere ovirprætt fpowcoder

Installing R

email.

Go to https://cran.r-project.org/

Precompiled timary distributions of the base system and contributed packages, Windows and Mac users most likely want one of these versions of R: Download R for Linux Download R for Made OS X Downlo

Figure 3: CRAN Download Page

. If you have questions about R like how to download and install the software, or what the license terms are, please read our answers to frequently asked questions before you send an

Installing RStudio

After downloading R, go to https://www.rstudio.com/products/rstudio/download/#download

Assignment Project Exam Help



Zip/Tarballs



Source Code

A tarball containing source code for RStudio v1.1,383 can be downloaded from here

Figure 4: RStudio Download Page

- A set of cheatsheets (reference guides) are available on the RStudio website./
- ► RStudio website.

 Radigup Sase Rpa Wectode Iss Com

R Cheatsheets Link:

Assignmentative Project - Extern Help

- ▶ Include the course code (GGR376) in the subject line
- Include your full name and student number in the body of the https://powcoder.com

Please read the course handouts and check the course website site before e-mailing a question, to make sure that it has not already been and the course website site before e-mailing a question, to make sure that it has not already been and the course website site before e-mailing a question, to make sure that it has not already been and the course website site before e-mailing a question to make sure that it has not already been and the course website site before e-mailing a question to make sure that it has not already been and the course website site before e-mailing a question to make sure that it has not already been and the course website site before e-mailing a question to make sure that it has not already been and the course website site before e-mailing a question to make sure that it has not already been and the course website site before e-mailing a question to make sure that it has not already been and the course website site before e-mailing a question to make sure that it has not already been and the course website site because the course website site of the course websit

► If your question is answered in a document, you will receive an email starting: "Review Course Documents"

- All requests for extensions are handled by the Department of personal power of the Department of Details are on course outline.
- Neither I nor a TA can grant you an extension.

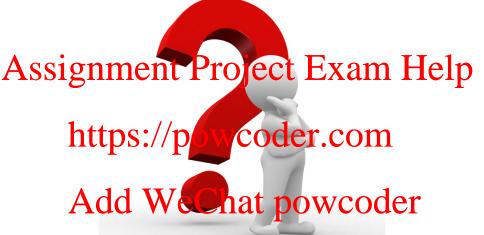


Figure 5: Questions before moving on?

Pre-test (15 minutes)

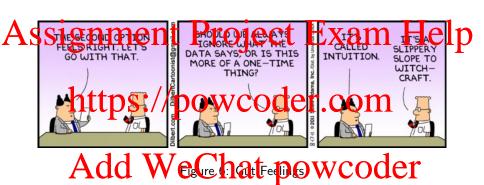
Assignment Project Exam Help

Think you're good at guessing stats? Guess again. Whether we consider ourselves math people or not our ability to understand and work with numbers is terribly limited, says data visualization expert Alan Smith.

 $\begin{array}{c} {\sf https://www.youtube.com/watch?v=ogeGJS0GEF4}\\ Add\ WeChat\ powcoder \end{array}$

Assignment Project Exam Help https://poweoder.com

- collection http://powcoder.com
- analysis
- prediction WeChat powcoder



Population, the totality of the set of interest

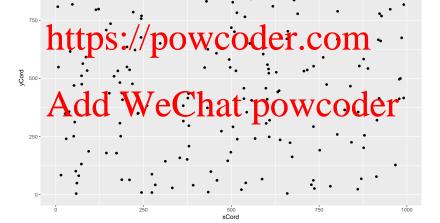
- https://powcoder.com
- Sample, a subgroup of the population.
 - The respondents to a Correy. Add We Chat powcoder

Population and Sample II

Let's visualize what the difference.

The Population

Assignment Project Exam Help



Population

Here is a sample.

Assignment Project Exam Help

https://powcoder.com

Add: WeChat: powcoder



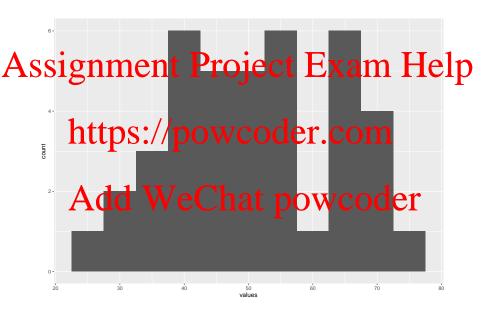
- 1. View summary statistics
- 2. https://powcoder.com
 3. Define my question
- 4. Conduct an appropriate analysis

What may we be interested in knowing?

Assignment Project Exam Help summary (sample A) [, c(1:3)]

```
https://powcoder.com
                                  Min.
                                         :26.00
##
   1st Qu.:181.2
##
                   1st Qu.:382.5
                                  1st Qu.:41.00
##
##
   3rd Qu.:639.2
                   3rd Qu.:832.5
                                  3rd Qu.:63.25
##
##
   Max.
          :953.0
                   Max.
                          :954.0
                                  Max.
                                         :74.00
```

Basic Plots: Histogram



- ▶ Identify a statistical model capable of testing our hypothesis or modelling our interest.
- https://powcoder.com

 - ANOVA

Acid Revision Moderat powcoder

We can separate our statistical techniques into two themes:

- 1. Instriptive Statistics owcoder.com
 Mathods of how we organize and summarize the data.
- 2. Inferential Statistics

An important step in your analysis because it provides a chance to

- https://powcoder.com
 - Charts
 - Add WeChat powcoder

Inference a conclusion based on evidence and reasoning.

- ► Mtetp&isions pot Wood of the Cannot observations
 - ► Hypothesis testing

Cognitive Bias 1:

During WWII the Center for Naval Analyses collected data on where gunshots were present on returning planes.

Asteriation to reinforce planes. Of the World and the Help

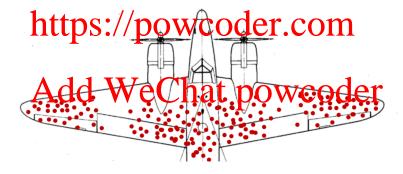


Figure 7: Example of bullet holes

Assignment Project Exam Help https://poweoder.com

Reading 1:

Sund in the Scoson, p. (2000) Classification Central The hot hand and the gambler's fallacy. Judgment and Decision Making, 1(1), 1.

Haselton, Martie G., Daniel Nettle, and Paul W. Andrews. 2015.

"The Evolution of Cognitive Bias."

doi:1https://powcoder.com

Wickham, Hadley. 2010. "A Layered grammar of graphics." Journal of Computational and Graphical Statistics 19 (1): 3-28.

doi:10A198/ids.2009.0208! hat powcoder