## Assignment Project Fx am Help

Linear regression basics

https://powcoder.com

Add We Chat powcoder

#### Introduction

This class will review:

## Assign Bata management (refer to T2 Introduction to STATA port) Planticular in the STATA port of the S

- Linear regression
- Prediction and analysis of residuals
- Individual and joint hypothesis tests (Wald, t, F)
- We begin with a demonstration from Microeconometrics using STATA Chapter 3 looking at whether private health irrsulants reduce the dical expenditures COCCT
- We move on to a practical looking at the gender gap in earnings of Australian clinicians

#### Demonstration - Introduction (1)

## Assignment Project Exam Help

- We analyse data on medical expenditures of individuals aged 65+ who, qualify for health care under the U.S.
  Medical Stogram OWCODET.COM
  - The data is from the Medical Expenditure Panel Survey
  - Medicare does not cover all medical expenditures.
  - Around 50% of individuals take out additional private cover of the out of the cover of the cover

### Demonstration - Introduction (2)

# Assignment Project Exam Help reduce medical expenditure?

- Need to control for any factors which might determine the original expenditures and the properties to take out private insurance
- Apply multiple regression to estimate the treatment effect control in for the real plant of the second of the seco

### Practical - Earnings decomposition (1)

## Assignment Project Exam Help We have earnings data for a sample of Australian GPs

- We have earnings data for a sample of Australian GPs from the MABEL survey
- I is well known that female dostors earn significantly less on average than male doctors. We use will use the Oaxaca-Blinder decomposition to decompose the earnings gap

Add WeChat powcoder

### Practical - Earnings decomposition (2)

The Oaxaca-Blinder decomposition is as follows. For two Assignment Properties The Interpretate Figure 1. The Interpretation of the

### httips://powcoder.com

$$R = \mathbb{E}[Y_A] - \mathbb{E}[Y_B]$$

### Practical - Earnings decomposition (3)

- 1. Load the data into STATA
- Describe and summarise the data for the pooled sample, males only and females only. What is the mean difference
- s in earnings between males and females? The median of the legestion of the state o
  - 4. Regress your dependent variable on yhrs female expression for the results. Is there evidence of heteroskedasticity? Is the model correctly specified? Are there any outliers?
  - 5. Perform the regression separately for males and females. Interpret he results. DOWCOGET
  - 6. Perform a single regression in which males and females have heterogeneous coefficients. Test equality of the coefficients for males and females.
  - 7. Use the oaxaca command to perform the Oaxaca-Blinder decomposition. You may need to install it first with the line ssc install oaxaca. See also the STATA journal article.