Assignment Phoject Fam Help

Linear regression basics

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Practical 2

Introduction

This class will review:

Assign Bata management (refer to T2 Introduction to STATA pdf) Plantic Batalysis O Ject Exam Help

- 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 insurance reflects medical exceptibilities S
- We move on to a practical looking at the gender gap in earnings of Australian clinicians

Demonstration - Introduction (1)

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- We analyse data on medical expenditures of individuals aged 65+ who qualify for health care under the U.S. Medican Stogram UTOTCS.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 to sure 10 its of Carlottet expenses

Demonstration - Introduction (2)

Assignment Project Exam Help reduce medical expenditure?

- Need to control for any factors which might determine the propersity in individuals to take out private insurance
- Apply multiple regression to estimate the treatment effect controlling for poservable factors

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 doctors earn significantly less or average than male doctors. We use will use the Oaxaca-Blinder decomposition to decompose the earnings

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Practical - Earnings decomposition (2)

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

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$$R = \mathbb{E}[Y_A] - \mathbb{E}[Y_B]$$
 (Endowment effect)
 $V + \mathbb{E}[X_A] - \mathbb{E}[X_B])'\beta_B$ (Endowment effect)
 $+ (\mathbb{E}[X_A] - \mathbb{E}[X_B])'(\beta_A - \beta_B)$ (Interaction effect)

Practical - Earnings decomposition (3)

- 1. Load the data into STATA
- 2. Describe and summarise the data for the pooled sample, males only and females only. What is the mean difference
- ssip earnings between pales and females? The median? elp which measures annual earnings
 - 4. Regress your dependent variable on yhrs female expression by a later practize childus visa. Interpret the results is there evidence of heteroskedasticity? Is the model correctly specified? Are there any outliers?
 - 5. Reform the regression separately for males and females. Interpet the results. CSTUTOTCS
 - 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.