Econometrics Cheat Sheet

by Tyler Rassess, University of Oblahoma. Miles San Administration

Data & Causality

Basica about data types and cansulity:

Types of data

Experimental Data from randomized experiment

Observational Data reflected passively

Cross-sectional Multiple solita, one point in time Single unit, modifiple points in time These section Longitudinal for Panel McRinde units. Edinged over multiple Histor Jershielle

Enpertmental data

 Correlation into Canadity Were name to Started Sciences.

Statistics basics

We enabled a random sample of data to burn shout the benealed into

Ranchin sample Representative of population Parameter Office Score souther describing population.

Estimator of R Rude assigning value of # to sumple e.g. Scoople average, $Y = \frac{1}{2^n} \sum_{i=1}^n Y_i$

Estimate of # What the estimator spite out.

for a particular sample (#1) Sampling distribution. Distribution of estimates

across all possible transples

Diss of selimeter W E(00) = 0

W. officions, if Var W. v. Var W. Edition in W consistent If \$ -0.8 in N -1 m. Consistence

Hypothesis testing

product.

The way we answer yes/no questions about and population using a sample of data, e.g. "Does increasing public achood spending increase student achievement?"

sull hypothesis (H_0) . Typically, $H_0: \theta = 0$. alt. Repothesis GH, F Typically, Re i f of fi

atgailleance level (a) Tolorance for making Type I senor;

Seg. 1075, 275, or 1753.

Some function of the sample of data head stationic CC1 critical value (c) Vision of F such that reject He if (F) > c).

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at dispoint his iff to or Zorided host. Largest is at which full to reject Hu:

request Mar If proc oc-

Simple Regression Model

Regression is useful because we can estimate a extent parties. relationship between some variable x and our outcome a

We want to intimate $\hat{\beta}_1$, which gives us the effect of x on p.

OUS formulas

To estimate As and As, we make two assumptions:

- $L: H(ba) \rightarrow 0$
- T. Elisabet in Elisabeth will be

When these hold, we get the following formulae:

$$h_0 = y - h_1 x$$

$$\hat{\beta}_i = \frac{Cov(y, s)}{Vor(s)}$$

to make the first fitted subset (6.3)

resistants ($\hat{\mathbf{g}}_{i}$) $\hat{\mathbf{g}}_{i} = p_{i} - \hat{\mathbf{g}}_{i}$, resistants ($\hat{\mathbf{g}}_{i}$) $\hat{\mathbf{g}}_{i} = \mathbf{p}_{i} - \hat{\mathbf{g}}_{i}$. Total Sum of Squares $SST = \sum_{i=1}^{N} (g_{i} - y_{i})^{2}$. Expd. Sum of Squares $SSE = \sum_{i=1}^{N} (\hat{\mathbf{g}}_{i} - y_{i})^{2}$. Resid. Sum of Squares $SSR = \sum_{i=1}^{N} \hat{\mathbf{g}}_{i}^{2}$. $\hat{\mathbf{g}}_{i}^{2} = \hat{\mathbf{g}}_{i}^{2}$. $\hat{\mathbf{g}}_{i}^{2} = \hat{\mathbf{g}}_{i}^{2}$. $\hat{\mathbf{g}}_{i}^{2} = \hat{\mathbf{g}}_{i}^{2}$.

"frue; of year, its y explained by a"

Algebraic properties of OLS estimates

 $\sum_{i=1}^{N} \hat{u}_i = 0$ (mean & sum of residuals is seed)

 $\sum_{i=1}^{n,N} a_i \hat{a}_i = 0$ (note temperator Set. a and symble.)

The OLA line (SRF) always passes through (X, §)

SSE + SSE - SSE

你在那天1

Interpretation and functional form

Our model is contricted to be Sinear in parameters

Block most Binesian bin at

Other functional forms can give more realistic model

Model	DW	300	faterpretation of A.
Level listed.			$\Delta y = \beta_0 \Delta x$
Level-log		Prefet ($\Delta_d = (\Delta_c/1000)(3\%\Delta_d)$
Eng-breed	Notice:		$\mathcal{H}\Delta_{ij} = (1000\beta_1) \Delta_{ij}$
Log-log	Nethyl	Seg(x)	Silver = S
Quadratic	7	44.0	$-\Delta g = (\beta_1 + 3\beta_2 e) \Delta e$

Multiple Regression Model

Multiple repression is more uneful than simple repression. because we run more plausolidy estimate salaria purchus relationships (i.e. E(a|x) = E(a) is more plausible):

$$y = \beta_0 + \beta_1 x_1 + \cdots + \beta_k x_k + n$$

A. R. : postind affort of each of the x's on y

$$\hat{\beta}_0 = \hat{q} - \hat{\beta}_1 \hat{x}_1 - \dots - \hat{\beta}_k \hat{x}_k$$

$$\hat{\beta}_j = \frac{\widehat{Cov}(g, \text{residualized } x_j)}{\widehat{Vor}(\text{residualized } x_j)}$$

where "meidualized s.," means the residuals from OUS regression of a₂ on all other a'v (i.e. x₂,...,x_{j-1},x_{j+2},...,x_k).

Gauss-Markov Assumptions

- gris a linear function of the Na.
- 2. y and a'v are randomly sampled from population
- 3. No perfect multicoffinearity
- E (s)x₁,...,x_n⟩ = E(n) w 0 (Cacondoundedome).
- 5. Vor ($u|x_1,...,x_k$) = Vor ($u|v|\sigma^2$ (Hononholasticity).

When (13-(4) hold: OLS is unbinsed: i.e. $E(A_i) = \beta_i$.

When (1)-(3) hold: OLS is Best Linear Cubiased Estimator

Variance of a (a.k.a. "error variance")

$$\begin{split} \boldsymbol{s}^2 &= \frac{SSR}{N-K-1} \\ &= \frac{1}{N-K-1} \sum_{i=1}^{K} \hat{a}_i^2 \end{split}$$

Variance and Standard Error of A.

$$Var(\hat{\beta}_j) = \frac{\sigma^2}{SST_i(1-B_i^2)}, j = 1, 2, ..., k$$

$$SST_j = (N-1)Var(x_j) = \sum_{i=1}^N (x_{ij} - \bar{x}_j)$$

 $H_{\nu}^{0} = H^{0}$ from a regression of x_{ν} on all other x's

Standard deviation: Visc Standard error

eron: $\sqrt{\hat{V}_{ab}^{ab}}$ $ar(\hat{\beta}_j) = \sqrt{\frac{\sigma^2}{SST_j(3 - B_i^a)}}, j = 1, ..., k$

Classical Linear Model (CLM)

Add a 8th mempition to Game Markey:

6. w is distributed N (0. e²)

Novel this to know what the distribution of R. is Otherwise, can't conduct hypothesis tests about the J's

Testing Hypotheses about the β 's

Under A (E)-16), can test hypotheses about the .f's

i-test for simple hypotheses

To test a simple hypothesis like

$$M_0: P_0 \rightarrow 0$$

 $M_0: P_0 \neq 0$

see a 1-book:

$$t = \frac{\lambda_1 - 0}{m(\lambda_1)}$$

where 6 is the sull hypothesized rates.

Reject H_0 if g < u or if |t| > c (See: Hypothesis testing)

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