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ECON32 Financial Econometrics

Week-1: A Reverse dom Variables and Distributions

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Random Variables: Definitions

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- RV and probability distribution
 - Two types of RV
 - Discrete RV: it tax 🔁 countable number of values.
 - Continuous RV: \mathbf{I}_{\prime} value in a interval.
 - Probability distribution (how likely the values occur)
 - WeChat: cstutorcs · Discrete RV – Probability mass (pmf): $P(X = x_i) \quad p_1 \quad p_2 \quad p_3 \quad \dots$
 - Cumulative Assignment Project(Exam=Helpi

• Continuous RV Email: tutorcs@163.com

- Probability density (pdf): f(u)- Cumulative derivout on 9.389476



Random Variables: Unconditional (marginal) Expectations (moments)

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- Characterise RVs
 - Mean or expected
 - **★**sible values, a measure of location
 - · Discrete RV:
- $\mathbf{I} = \sum_{i} x_i P(X = x_i)$ $X) = \int_{-\infty}^{\infty} u f(u) du$
- · Continuous RV:
- Mean of g(X) (egwer that extutores
 - $E[g(X)] = \sum_i g(x_i) P(X = x_i)$ Discrete RV:
 - Continuous RV: Assignment Froject Fixtum Help
- Variance of X:
 - A measure of the Email of variation Real 63 strevalues

$$Var(X) = E\{[X - E(X)]^2\} - E(X^2) - [E(X)]^2$$
- Covariance between X and Y

- - A measure of association //tutorcs.com $Cov(X,Y) = E\{[X E(X)][Y E(Y)]\}$

Random Variables: Conditioning

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- Conditional dis → Maria of Y given X
 - The distribution $X = \overline{\mathbb{Z}} \times \mathbb{T} \times X$ is "known".
 - It depends on X
 - It is denoted as Y|X.
 - eg. the distribution of wage for age = 30.

 Assignment Project Example 1 is wage | age depends on age.

 | Shp, |
- Conditional explentationully (\$10) [X6]3.com
 - It is calculated with the conditional distribution, treating X as "Nown or 3 1964".
 - It depends on Ktand, hence is also a RV.

Random Variables

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- Conditional meal with en X
 - E(Y|X) genera $X = \overline{\emptyset}$ on X.

eg. Linear regression $Y = a + bX + \varepsilon$. $E(Y|X) = a + Wb Cha(\varepsilon|X) to corresbX$.

Assignment Project Exam Help

- Conditional variance of Y give X
 - Var(Y|X) gene any aid pentors @ 163.com

eg. Linear regression
$$Y = a + bX + \varepsilon$$
.
 $Var(Y|X) = Var(x|X) tutorcs.com$

Properties of Expectation operator

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Let X and Y be RV \blacksquare a constant.

 Expectation is at perator

$$E(a) = a$$
, Var $E(aX) = aE(X)$;

$$E\left(\frac{X}{Y}\right) \neq \frac{E(X)}{E(Y)}$$

$$E(X + Y) = E(X) + E(X)$$
: cstutorcs $E[g(X)|X] = g(X)$ for any function $g(\cdot)$;

$$E(Y) = E[E(Y|X)]$$
 stignated expertitions Exam Help

$$E(Y|X) = E(Y)$$
 if Y is independent of X;
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Variance in a nonlinear operator 163.com

$$Var(aX) = a^2 Var(X); 749389476$$

 $Var(X + Y) = Var(X) + Var(Y) + 2Cov(X, Y);$
 $Var(Y) = E[Var(X)]/HtVar(E(X)X)].$

Sample moments

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- Suppose we have ₩ lies) observations $\{X_t\}_1^T = \{X_1, X_2, \dots, X_t\}_1^T = \{Y_1, Y_2, \dots, Y_T\}.$
- Sample mean
 - $\bar{X} = \frac{1}{T} \sum_{t=1}^{T} X_t$ WeChat: cstutorcs
 - a measure of location (central tendency)
 - an estimator of passignament People Exam Help
- Sample variance and standard deviation Email: tutores@163.com

•
$$\hat{\sigma}_X^2 = \frac{1}{T-1} \sum_{t=1}^T (X_t - \bar{X})^2$$
, $\hat{\sigma}_X = \sqrt{\hat{\sigma}_X^2}$
• a measure of variation

- an estimator of thetpsp://letionvariance Var(X)

Behold the summation operator

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Linear operator:
$$\sum_{t=1}^{T} (a + bx_t + cy_t) = 1$$

Summation of a constant:

$$\sum_{t=1}^{T} a = Ta$$

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Nonlinear relations

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$$\frac{T}{x_t}$$
 $\frac{T}{x_t}$ $\frac{T}{x_$