STAT 202 复习 ch. 12、13、14、15 12 MAR 2023
Chapter 12 Simple Regression
①利用方程本值
@ Test for slope: Ho: B, = O. H,: B, to, p-value
③ 注意: of=1, ofz= n-2, total of= n-1
O confidence interval for mean of y prediction interval for individual y (1) sheet)
② confidence interval for slope (直接用 excel 信果)
图利用ANOVA表回号问题, 计算ANOVA表中的值 (MSK, MSE, Farit, p-value)
(1) R= 2 of vowlation the model explains
(8) V (correlation coefficient) EADE -1 -0 -+ 12-402
9 "The standard error is too high for this model to be of any predictive use
(1) $t_{calc} = \frac{\beta_1}{S_{b_1}}$, $t_{calc} = \sqrt{\frac{(n-2)}{1-r^2}}$
Chapter 13 Multiple Regression
①荆断 intercept 是否有意义(注意单位实际意义!)
① 1章: of:= c, of:= n-c-1, of:= n-1
③ 什算ANOVATE (R', Rady) R'= SSR = 1- SSE
@解释方程的实际意义.
① 区31] quantitative/catagorical vowlable, 对于是引重量, 重量放发的 n-1 (dumrny)
(6) 報答: Ho=Bo/B, =0 (s/pn/ficant predictor)
@ moderton to the 1) Frames Dula: 10 phservations predictor K+ KK
2) & Doane's Rule: I observartions/predictor. 提供推确性

Chapter 14 Time-Seves Analysis	
1) Trailling Moving Average (TMA) $\hat{y_t} = \frac{y_t + \hat{y_{t-1}} + \hat{y_{t-m+1}}}{m}$	
· smoothes the past fluctuations	
·可用于福岡 Jtn, 但最同只作为 one-period-ahead foreast forecast	
· 10 "Moving Average" it &	
Centered Moving Average (CMA) $\hat{y_t} = \frac{y_{t-1} + y_t + y_{t+1}}{Av_6(2^{-1})}$. Fight \hat{z} (3d), of \hat{z}	
· Fan 17 (101, 00) 3 A. CN(A) =	
(3) Seasonal Index, deseasonalization. adjusted seasonal invex.	
@ Forecasting is not a major factor affect capital investments.	
@ 割断 Moving Average 是是自方生 (useful: 看如原则的符写程度.	
(6) 区分 linear, cyclical, irregular 趋势,并利断是是 consistant.	
on all Carling Fty = Q At + (1-X) that	C
Exponential smooth tactor	
MSE: 5(yi-ei) x 数大磁平滑.	
MAPE:(\(\sum_{\mathbb{N}!} \) - \(\lambda \) (该位为百分数) default: \(\alpha = 0.2)	
F, ita 612: 1) Method A: F, = y. + y.	
· As a 1, the value of forecast 1	
图制用数据规图,分别用 linear, exponential, quadratic	
(9) Seasonal Data vegression 过意用的是厚数据还是 deseasonalized data.	

Chapter 15 Chi-Square Tests	
O Contingency table: for a rxc table: d.f. = (r-1) (c-1)	
$\chi'_{cah} = \sum \frac{y_{3k} - e_{5k}}{e_{5k}}, e_{5k} = \frac{R_5 C_k}{n}$	
H.: Variable A is independent of B	
@ It I teale, d.f. p-value	
① GOF test 分辨 Ho, H, 区别不同分布的 d.f.	
Multinomial GOP: Ho: Theo. 13, The 20.23 dg=c-0-1	
Uniform	
Mulform Poisson Ho: The population follows $df = c - 2 (\lambda)$ Normal A polsson & Mandoto is $\lambda = 0$ of $\lambda = 0$.	
Normal $df = c - 3 (\sigma, \mu)$	
3 25 pm 125 pg which 62 1 40 q.	
对于"Xormore"需属是 Cochrom's Rule: 安子5) (上下限都需属	Ł
·且该处P(X=X)=1-P(X=X-1),	
· es= POISSON.DIST (x, a) x /00	

・治療者起見れて極、治療者係起目送及

·可用=CHISQ、TEST()验证, M=1-CHISQ.DIST()为主.