MECO 6315 Assignment 11

vort: crime rote

For the data on the other side of this page, perform a multiple regression to determine what variables are might be useful in predicting the crime rate. Make sure you do pre-plots to check for curvature and potential outliers. Also make sure you do residual plots for the predictor variables selected and a normal probability plot to check the normality assumption.

16 > 6 which 3 In determining which variables to use as predictors do at least the forward selection method, the backward elimination method and true step-wise regression. If you did not wind up with the same models from the three approaches explain which model you would use and why.

- Comment as to whether the variables chosen are "sensible" and whether the sign of their coefficients seems reasonable.
- In your report include enough computer output so that all steps in the stepwise procedure are shown. Also include all plots.

I can send you the data as an EXCEL file if you will e-mail me at wiorkow@utdallas.edu.

Small figure 2

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Datafile Name: US Crime Number of cases: 47 Variable Names:

- 1. R: Crime rate: # of offenses reported to police per million population
- 2. Age: The number of males of age 14-24 per 1000 population
- 3. S: Indicator variable for Southern states (0 = No, 1 = Yes)

- 3. S: Indicator variable for Southern states (0 = No, 1 = Yes)
 4. Ed: Mean # of years of schooling x 10 for persons of age 25 or older
 5. Ex0: 1960 per capita expenditure on police by state and local government
 6. Ex1: 1959 per capita expenditure on police by state and local government
 7. LF: Labor force participation rate per 1000 civilian urban males age 14-24
 8. M: The number of males per 1000 females
 9. N: State population size in hundred thousands
 10. NW: The number of non-whites per 1000 population
 11. U1: Unemployment rate of urban males per 1000 of age 14-24
 12. U1: Unemployment rate of urban males per 1000 of age 35-39

- 12. U2: Unemployment rate of urban males per 1000 of age 35-39
- 13. W: Median value of transferable goods and assets or family income in tens of \$
- 14. X: The number of families per 1000 earning below 1/2 the median income

The Data:

79.1 161 1 1 88 5 56 583 1012 33 301 108 41 394 281 163.5 143 0 113 103 95 583 1012 33 102 96 36 557 194 165.5 143 1 0 113 103 95 583 1012 33 102 96 36 557 194 169.9 136 0 121 149 141 577 994 157 80 102 39 673 167 182.4 141 0 121 109 101 581 985 18 30 91 20 578 174 68.2 121 0 110 118 115 547 984 25 44 84 29 689 126 96.3 127 1 111 82 79 519 982 4 139 97 38 620 188 155.5 131 1 109 115 547 984 25 44 84 29 689 126 155.5 131 1 109 115 547 985 38 399 286 81 28 421 239 70.5 140 0 118 71 68 62 553 985 39 286 81 28 421 239 70.5 140 0 118 71 68 632 1029 7 15 100 24 526 174 167.4 12 0 105 121 116 580 966 101 106 77 35 657 170 84.9 134 0 108 75 71 595 972 47 59 83 31 580 172 61.1 128 0 113 67 60 624 972 28 10 77 25 507 206 68.4 135 0 117 62 61 595 986 22 46 77 27 529 190 68.4 142 1 88 81 77 497 956 33 321 116 47 427 247 59.8 135 10 10 10 116 123 115 537 978 31 116 47 427 247 59.8 135 10 10 10 116 123 115 537 978 31 116 47 427 247 59.8 135 10 10 10 116 123 115 537 978 31 116 47 427 247 59.8 13 116 47 427 247 59.8 13 116 47 427 247 59.8 13 116 42 12 13 16 53.9	R	Age	s	Ed	Ex0	Ex1	LF	M	N	NW	U1	U2	w	х
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