

# ISYE 6501 - Midterm 2 Exam with Questions and Answers

- **when might overfitting occur:** when the # of factors is close to or larger than the # of data points causing the model to potentially fit too closely to random effects
- **Why are simple models better than complex ones:** less data is required; less chance of insignificant factors and easier to interpret
- **if it's good with the current certain**



- **what is forward selection:** we select the best new factor and see enough ( $R^2$ , AIC, or p-value) add it to our model and fit the model w set of factors. Then at the end we remove factors that are lower than threshold
  - process over, then we move with all set of



- **what is backward elimination:** we start with all factors and find the worst on a supplied threshold ( $p = 0.15$ ). If it is worse we remove it and start the We do that until we have the number of factors that we want and then the factors lower than a second threshold ( $p = .05$ ) and fit the model factors

- selection and
- factors and at each step adding each factor appear.



- **what is stepwise regression:** it is a combination of forward selection backward elimination. We can either start with all factors or no factors step we remove or add a factor. As we go through the procedure after new factor and at the end we eliminate right away factors that no longer
- **what type of algorithms are stepwise selection?:** Greedy algorithms - at each step they take one thing that looks best
- absolute value

- **what is LASSO:** a variable selection method where the coefficients are determined by both minimizing the squared error and the sum of their absolute values not being over a certain threshold  $t$

# Midterm Exam Isye

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