R for Economics and Social Science Research

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WORKSHOP 3

- 1. Filter the Wage data set to include only individuals with wage < 200 and age < 60. Then split it into training and testing sets.
- 2. Using the training set, fit linear regression models with wage (or logwage) as response variable and age, marital status, education, job class, health condition, and health insurance (health_ins) as possible predictors.
- 3. Check the model assumptions for each fitted model.
- 4. Use performance metrics such as Ajd. R^2 , RMSE, AICc, BIC, etc) to identify top 3 models.
- 5. Evaluate the accuracy of the predictions obtained from the top three models using the test set.
- 6. Report and interpret the parameter estimates (and their significance) of the final model.