**Week 10 Lab: Understanding Regression**

You have been hired by a political party to conduct a regression analysis of past candidates for congress. They are interested in what factors seem to produce successful candidates. The outcome of interest is the *share of the vote that the candidate received in the 2018 midterm election*. The party has provided data to you on the following features of each candidate:

* Age
* Gender
* Race
* Education
* Previous years of political experience
* Intensity of news coverage (measured as average minutes per week in the six months prior to the election)
* Campaign funds
* Number of newspaper endorsements

Describe the regression model you would use to explain candidate performance. Your answer should include, at least, the following:

1. The specific regression equation you will use
2. Any violations of the assumptions necessary for regression
3. Any issues with interpreting the model
4. A discussion of how to ameliorate those assumptions
5. Your overall judgment on how trustworthy this model is

Do not answer each of the above points separately. Just include all the relevant information in your answer.