DSC 530 Final Project

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The statistical question that I want to answer is how do the different fighting styles relate to each other. My hypothesis is that there would be a negative correlation between fighting styles. For example, if a fighter strikes more then they will have less takedowns or submissions. The main way I performed my analysis is by making a linear regression to show the relationship between significant strikes landed and takedowns landed. My reasoning for this is that if a fighter strikes more then they would spend less time and effort on takedowns. The linear regression showed that when significant strikes landed increases by 1, takedowns landed increases by 0.65. One explanation for this could be that when a fighter gets hit with more significant punches, they become more vulnerable to takedowns. I initially thought that there would be a negative correlation because I assumed that if you were able to land more significant strikes then you would stick with that fighting style rather than go for a takedown. I feel like there were more fight statistics that I could have included. One challenge that I had was that I had trouble figuring out which variables to include in the PMF comparison and how to interpret the results. Another challenge was that a lot of the textbooks examples use the thinkstats module that author creator but I used other libraries so I had to look up how to perform the operations with those functions instead of the functions used in the book.