HUDK 4050 Reflection Essay

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This course is my first core course in Learning Analytics. My undergraduate major is data science, and I have learned some basic methodologies, but I am curious about how these will be applied to the field of education. I hope to have a deeper understanding of the data analysis of education through this course. I have learned R and Python before, but it has been a long time and I have forgotten it. Therefore, a personal learning goal at that time hoped to review these tools and become more proficient. However, in the process of learning, I found that I needed to pay more attention to analysis methods rather than programming languages, and my goal changed to become more proficient in data analysis methods and models.

After a semester of study, through slides and the professor's explanation, I have a better understanding of the data analysis method. I completed 8 coding exercises, and independently completed four Analysis Challenge Assignments. Finally at the end of the semester, I worked with another 4 students, did a Creative Analysis Assignment, and worked together to complete the presentation and paper.The biggest take-away is an analytical method for educational data problems. I have a clearer logical framework for how to use data to solve different types of problems. My favorite part so far is the final Creative Analysis Assignment. Through this assignment, we can use the methods we have learned to solve some practical problems. This makes me feel that my study is valuable. And we can better understand how to use data analysis to solve some problems in education through this real case. The biggest challenge should be to complete all Analysis Challenge Assignments independently. These assignments can be done in groups as required, but because I am in China and there is a serious time difference with the United States, it is difficult to work with classmates in the United States, so I chose to complete it independently. But

fortunately, the students are very enthusiastic. When I encounter difficulties in my homework, I will ask them for help, and they will guide me in time.

From this point of view, I have completed my learning goals. I have a deeper understanding of data collection, processing, and analysis, and I have successfully applied them to real cases. Familiar with educational data analysis from both theoretical and practical aspects. This course was a starting point, and it made me more sure of the importance of data analysis in the field of education. It let me know that there are actually a lot of educational data, and we can also make better use of these data through code. In the future, I hope that I can use data to discover more insights and solve many complex real-world problems by learning more professional skills. I also plan to participate in an internship related to data analysis, specifically data analysis in the field of education, so that I can experience more realistically how to apply the knowledge I have learned to reality. If during this process I find that I am suitable and like this job, I am willing to become a data analyst in the education industry when I graduate in the future. Of course, I still need more study and practice. I look forward to the next semester's course very much.