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STATS 419
Instructor: Monte J. Shaffer
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Writing Assignment "hello friend"

My name is Michaela Bayerlova, a senior at Washington State University, and I am majoring in Data Analytics (Physical Sciences). I am from a small town in Germany. The reason why I came to WSU is tennis in the first place. I am on the WSU Cougar Tennis team, which gives me the opportunity to play tennis and also pursue my Undergraduate Degree. I chose WSU because it is a very open-minded and friendly school with big support. Additionally, a college town is a good environment to focus on the path of studying and developing as a person. This course is a required course for the Data Analytics major. My expectations are to learn about Multivariate Statistics to be able to use it in Analytics. And I want to earn a good grade as well. My strengths in math are learning and understanding new skills. I like computing and using graphs and their functions, derivations ect with the according properties. In previous Statistics classes I think my favorite topic was hypothesis testing. In data analytics the best part is to drive conclusions from the analysis made.



I will graduate in Spring 2021. My ideal first job is at a smaller company with great ambitions, a good working environment and working atmosphere. For that I think I will need to develop some more professionalism. What I mean by that is to be confident in oneself and the work.

JOB DEMAND	MY PREFERENCES
Data Engineer	Data Analyst
Data Analyst	Insight Analyst
Insurance Analytics	Actuary Analyst
Algorithm Design	Data Visualization
Sensitivity Analysis	Excel, merging

My preferences here would clearly be to find a company that is doing something in the science field. I like to see a product at the end of the process, which means that the company should produce goods. It is the ideal because I am very interested in sciences like chemistry and physics. I understand basic concepts and I would love to get insights into some production in order to for example optimize it. I thought maybe some heat could be better conserved or any process is not working good enough and some components that contribute to it can be analyzed. Therefore, I ranked the Data Analyst to be first and Insight Analyst second. The Actuary Analyst is I think in big need and it does interest me too to change things to find the best option. Other than that, I think that Data Visualization can help describe a problem to

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another party and explain the situation better than thousands of words. So, I think it is also an interesting job because it always involves something new. As the fifth ranked preference would be the usage of Excel and other tools for Data merging. It is very important to become an idea of the whole data, but then find relations and other ways to simplify the data in order to drive any conclusions. I think that my goal is to operate on data. Skills that are very useful I think could be anything, but the more someone knows the better. At the top is SQL with many jobs (~15000) related to it in almost every field. Excel also is a good tool for basic Data Analysis. With both I got familiar during an internship.

The job demand I think mainly is oriented a little bit different. I think due to my searches that the Data Engineers and Data Analysts are probably the most demanded. It is very useful and applicable in many areas. Then, Insurance Analytics, where I think maybe the reason is that the population is getting older and these needs are getting more important and therefore need to be solved. In Algorithm Design I have also found many entries, as there are many processes that can be automated and need to be developed. And then the last field that gives many jobs is social media and the internet in general. The Sensitivity Analysis is involved there.

My alignment does differ, I see that one of the high preference jobs is Data Analytics as a broad spectrum. Unfortunately, the other demanded areas are not as much my interest.