Data Science as a Career of my Future

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**A Career in Computer Science**

There are many careers in life to choose from in computer science. It is a bit overwhelming to think about what I want to do after my university graduation. I decided on a data scientist as the specific position of my future job career on one of the leadership panel discussions in the class “ITSC 2600 Computer Science Program, Identity, Career”. We discussed with Dr. Doug Hague, Executive Director School of Data Science; Dr. Doug Hague gave us more information about data science and the proper application places for a job application and mentioned that data science has a bright future.

**Background of Education**

I expect to graduate with a computer science major in May 2023 with a concentration in software, system, and networking as my first bachelor of science. In my college progress, I had various technical skills and knowledge in computer science. I learned how to develop multiple programming languages such as Java, C++, SQL, and Python, and I have learned how to solve complex mathematical problems and critical thinking. I began to think about what I wanted to do after graduating next year and my short and long plans for my specific position career.

I like solving complex mathematical equations, and designing, manipulating, and querying data. From my research, A data scientist is a professional responsible for collecting, analyzing, and interpreting enormous amounts of data; therefore, a data scientist will be the best-fit position in my future career. I want to work as a data scientist by applying my school knowledge, skills, and experiences. The analytical ability to interpret data sources, manage large amounts of data using Structural Query Language (SQL), ensure consistency of datasets, and create a visualization to aid more understanding of data through Python.

**Knowledge of data scientists.**

Data scientists require mathematics, statics, and computer programming to sort and visualize data. I had impressive skills and knowledge in computer science, which helped me become a data scientist in my future career. In my data scientist career, I use my analytical ability to interpret data sources and manage vast amounts of data. Besides that, I will apply technical communication, which helps me manage the conflict between coworkers and customers and builds a company's leadership skills.

**The Intent of Data Science**

Data science is a favorably interdisciplinary technique involving an enormous scope of information and usually considers the big picture more than other analytical fields. In business, data science aims to provide intelligence about consumers and campaigns and help companies create firm plans to engage their audience and sell their products. Because big data is a rapidly expanding field, new tools are constantly available, and those tools need experts who can quickly learn their applications.

Data scientists can help companies create a business plan to accomplish goals based on research. All those activities need mathematics, statics, and computer programming skill, and I love to work with big data by applying my computer skill and ability to work analytically. Data science persists in evolving as one of the most profitable and in-demand career paths for competent experts. Data mining is sorting extensive data to solve complex business problems via analysis and programming skills. To encounter practical intelligence for their organizations, data scientists must master the entire expanse of the data science life cycle.

**Efforts I will Input to the Company**

I applied the knowledge I earned from college to companies and created algorithms and predictive models that needed information to solve complex problems. Use that created predictive model and increase and optimize customer experiences. Develop custom data models algorithms; develop processes and tools to monitor and analyze model performance. Use parallel computing to improve the computer’s performance for data analysis and perform the detail of all tools needed for data scientists.

**Course Needs for Advanced Data Science Skills**

This semester, I am taking a web design development class, among some software developer courses. I am learning programming languages in the web development course, like HTML, JavaScript, CSS, and jQuery. That language helps me with web design and development. This skill and knowledge improve my understanding of data science and open the road for connecting web technologies and data science. I will improve my skills with software development courses such as mobile application development, web-based, and networking application development. Such software developer programs ensure me for my long-term plan I have on data science.

**Short and Long-term Plans**

My short-term goal is to understand each course with an exceptional acquaintance and finalize my classes. Identify the tools and understand the programming language needed for data scientists and software developers. My long-term plan is to clone data science with software applications such as web applications to simplify managing large amounts of data through the web application, which is very helpful for larger companies. Reliable web development teams cater to applications' deployment to the web, and data scientists are more focused on delivering relevant models catering to specific business problems.

**Conclusions**

I enjoy challenging myself with complex mathematics and solving different mathematical and statics questions in my school progress. Also, I have impressive technical and various tools skills, which will help me in my future career. Data scientists require basic mathematical skills and some computer programming. And here, I am the best fit for the data scientist position to work better for a company using modern technology effectively and analyzing a vast amount of data by the analytical ability to interpret data and clones with application to improve the performance of the data activities.