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Data Science as a Career for my Future

**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 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; He 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.

Data Scientists use coding and other computer programming tactics to automate data collection and storage tasks. They may work closely with company departments or even create a system for storing collected information within their databases. As a computer science student who wants to work as a data scientist, I know about solving complex mathematical problems. I am skillful in programming languages such as MySQL, Python, Java, C++, HTML, and CSS.

**Background of Education**

I will graduate in May 2023 from the University of North Carolina in Charlotte with a bachelor’s degree in Computer Science. I completed courses in network operation and security, software engineering, database design and implementation, parallel computing, web design and development, and data structure and algorithms. I developed a program using multiple programming languages such as Java, C++, Structured Query Language, Python, Hypertext Markup Language, and Cascading Style Sheets.

I have achieved product vision, planning, design, product test, and implementation project in the ITSC-3155-Software engineering. I performed hospital database design and implementation projects in ITCS-3160-Database Design & Implementation. I also refined code for an inheritance policy insurance project using Java in ITSC 1213-Introduction to Computer Science II.

**Knowledge of data scientists.**

Data scientists require mathematics, statics, and computer programming to sort and visualize data. I have impressive skills and knowledge in computer science; for instance, developing web pages using HTML, CSS, and JavaScript, writing code for applications using C++, Java, and C, and designing and building frames for data visualization on the website with Python. Those will help 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.

**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**

I am taking a web design development class this semester, 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; This is the best fit for me to be in the data scientist position to work better for a company using modern technology effectively and analyzing a vast amount of data using SQL and visualizing data with python.