Motivation Letter

I am a person who has always had a profound passion and fascination for areas requiring an analytical approach. Right from the early days at school, my interest in computer science began around four years ago when I was introduced to them. So, I joined the Diploma in Computer Management where I got some basic knowledge about Hardware, Software and Networking. This course motivated me so much to learn computer science. Another motivation came when I was coding in school while creating a small desktop application. From there on, I was captivated. I started working on small projects of my own, creating other applications and a simple calculator. For me, working on computer code is my way of being creative, since I find it difficult to be creative in more common ways such as drawing.

Seeking a position in the field of Computer Science where I can utilize my skills to further work towards personal and professional development. To pursue my aim I decided to do a Bachelor's in Computer Science and Engineering. Amrita has been at the forefront of active research in the field of medical sciences, graduation outcomes-combined percentage of students graduating from this campus and admission to higher education in top universities across the world. This college has one club named amFOSS, which is a club of open source enthusiasts. So I joined this college and amFOSS club to work under the guidance of mentors. After joining this club I made a CLI app for fetching Twitter handler details, web page to fetch GitHub profile information. For working efficiently I learnt Version Control System. Next, I started learning android development and built some basic mobile applications. I was introduced to Open Source Contributions and worked for Mifos which is an extended platform for delivering the complete range of financial services needed for an effective financial inclusion solution. Soon enough became a part of the Free Open Source Software community. Here fixing bugs, introducing some new features and submitting patches are my main tasks. This helped me a lot to gain exposure to large codebases and to create community relations.

Attended Hackverse a Hackathon at NIT Surathkal where my team and I created an emotion recognition based android application. This project taught me how to work in a team, a time limit in a hackathon forced me to distill the visionary concepts down to actionable solutions, it built a bridge to the developer community.

Along with gaining theoretical knowledge from the academic curriculum, I also stressed on strengthening my practical skills. I am learning some of the core theoretical concepts in computer science with a specialization in AI like elements in computing systems, linear algebra, digital manufacturing, biology for intelligence systems, data structures, algorithms and database management systems. I worked extra time after classes in the lab trying to grasp these concepts in a hands-on manner.

After my bachelor's, I plan to do my Masters and Ph.D. in Cyber Security and Public Policy and eventually go into the field of research. In the future, I wish to apply the concepts that I have studied in the real world by doing research by using Big data analysis in Cybersecurity as it involves the ability to gather massive amounts of digital information to analyze, visualize and draw insights that can make it possible to predict and stop cyber attacks. Along with security technologies, it gives us a stronger cyber defense posture.

I read your program information description and feel the Big Data analysis should be suitable for me. The purpose of applying for a summer school at your university is precisely to acquire the depth of knowledge in that topic so that it will benefit me in the future.