



RECOMMENDATION LETTER

It is with great enthusiasm that I recommend Anurag Tripathi for pursuing a master's degree program at your esteemed University. I have known Anurag for the last four years. After the second year, he did his research work under my guidance. I was his subject teacher for Digital Image processing and a project guide for his final year B.Tech. project. I have seen him grow over the years and I deem it my pleasure to write on his behalf.

Anurag is an intelligent student who relates theoretical concepts taught in the classroom with practical applications. He attends all his classes with utmost attention and sincerity. He has an enormous ability to quickly grasp and understand concepts. He is not someone who accepts whatever is being told to him. He raises questions and the subject and tries to find out how a certain technology makes day-to-day tasks easier, thus benefiting society. Many times, I have seen him teaching other students in his class. He likes to explain concepts to students curious about how a particular concept works in real life. He pays a lot of attention to the intricate details of those who find difficulty in understanding them, and in the process consolidates his conceptual knowledge of the subject. His presentation and communication skills are par excellence. I remember once when I was going for my invigilation duty, I saw Anurag surrounded by all his classmates. I interrupted their discussion thinking that some conflict between students had taken place. To my surprise, I found that Anurag was explaining/clarifying the doubts of his classmates before the exam patiently while other students were shouting at him. These qualities made him score a perfect 10/10 grade point in my subject and 9/10 grade point in his minor (7th semester) and major project (8th semester) guided by me.

As his project guide, I have seen Anurag spending considerable amounts of time devising creative solutions to his research problem. Owing to his avid interest in machine learning, he uses its concepts to find solutions to the research problem. He used his knowledge of machine learning and deep learning to come up with a project to classify cervical cancer. This project was later transformed into the form of a research paper titled "Classification of Cervical cancer using machine learning" and "Classification of Cervical cancer using deep learning". Both have been published in prominent institutes like IEEE. Anurag is highly interested in artificial intelligence and keeps on pondering ways of including machine learning, deep learning, etc in his projects to reach an optimum solution. He has a knack for details. He delves deep into the problem and tries to find logical answers to them. In many of our research discussions, he would explain his views proficiently with supporting arguments which are a testimony to his oral articulateness. Once I asked him to think of a way to segment the nucleus from all the cervical cancer cells from the datasets. The next day he came up with a solution. When he discussed the solution with me, I was surprised to see that his solution was the method that uses energy forces and constraints to separate the pixels of interest from the picture. Little did he know that his solution was a well-established framework in computer vision given by Michael Kass and others. This clearly shows his creative and logical problem-solving skills.

I evaluate Anurag as an intelligent, focused, committed and creative person. He has the potential to transfer the knowledge gained from the undergraduate program to develop into a seasoned professional. He has the right aptitude and soft skills that allow him to pursue higher studies and choose a career path of his choice. Without hesitation, I highly recommend Anurag Tripathi for your esteemed college.

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