**LETTER OF RECOMMENDATION**

I am associated with the Electronics and Telecommunication department of Yeshwantrao Chavan College of Engineering for more than 14 years now. During my professional career, apart from teaching core subjects like Electronic Devices and Image processing, I have been associated with mentoring more than 10 groups of final year students in their under-graduation projects as well as a member of the guiding committee for final year research papers. I have been actively associated with research works pertaining to image processing in medical science. I am author of more than 7 research papers out of which my most prominent ones are ‘**Segmentation of brain MR images using rough set based intuitionistic fuzzy clustering**’ **which can be found under ScienceDirect** and ‘**Segmentation of Left Ventricle of 2D Echocardiographic Image Using Active Contouring**’ **under IEEE**.

I am elated to recommend Mr. Samik Biswas for the Master’s Program at your esteemed University because I have known him for the past 6 years as one of the diligent students who I have come across in my career span. I have closely watched his journey from a technical novice to an enthusiastic and passionate programmer. Akin to his contributions to our college, I am sure he would contribute to your university in myriad of ways.

These qualities were further manifested when I got the opportunity to **closely mentor his research paper for his undergraduate project**. Being from Electronics background did not hinder his passion for programming. He looked at this opportunity to explore his quest for gaining more knowledge and made this project a huge success. He, along with his team, showed phenomenal performance **by constructing an autonomous vehicle (based on GPS) with a mechanical arm**. Samik believes in leading by example and he did a similar thing by successfully **making this the only inter-disciplinary project in the college** that included students from Computer Science and Mechanical departments as well. The **arm movement was performed using a micro-controller and stepper motors** and Samik was responsible to program this from scratch to a fully functioning model. The micro-controller was programmed in assembly language and though Samik was proficient in the language, this project required more than classroom knowledge. Starting from day 1 till the completion he spent numerous hours learning the language in absolute depth.

While mentoring his thesis, I was amazed by his innovative temperament. Rather than going the conventional ways, he had found different novel and logical solutions to each and every problem. For instance, the arm was initially meant to be controlled using a joystick but to increase the efficiency and reduce the implementation cost, he automated the complete process. The thesis contained detailed description of components used along with specifications and an insight of the programming language used along with representation of the logic flow. The panel of judges also gave points on different facets of the working model, discussing the possibilities of eliminating the cons and focusing on the future aspects. I strikingly remember every detail because this was selected as the best research paper of the year.

Throughout his academic span in our department Samik has shown immense interest in programming subjects. His stellar performances in Computer Science electives were often praised by the department faculties. His ability to implement his learnings in practicality is what makes him stand out from others.

The best thing about Samik is that he was not only limited to studies. He has shown active participation in organizing events during our yearly college festivals. Apart from these he has also taken great interest in organizing certain computer applications workshops to cater to the interest of students. One such successful event was a 2-day Web Development workshop that he organized during his 7th semester.

He also took the opportunity to help his peers whenever needed and thus was aptly chosen to be the class representative for almost 3 years. Samik is a wonderful student who gladly takes the responsibilities and pushes beyond his capacities to help others. He knows how to strike the right balance between a competent and friendly environment.

Samik has made the department and college proud on different fronts. He was one of the ten students from the department who got a chance to intern at ‘**Akashvani**’ which is a prestigious radio broadcasting organization operated under the Government of India. He also bagged an early placement offer from Tata Consulting Services Ltd. The placement constituted of aptitude and programming tests followed by a grilling interview on computer programming. He was among one of the seven students from the department to exercise this opportunity.

Concluding my evaluation, I would like to highlight that I genuinely believe that with his immense inclination towards computer science and technology, brilliance, enthusiasm and hard work he will bring wonders to your program. I highly recommend him for the Graduate program at your University. If you have any questions regarding this, feel free to contact me. Below are my contact details.

**Dr. Yogita Du**

Assistant Professor

Yeshwantrao Chavan College of Engineering

M – **(+91)9922298656**

Email – **ykdubey@ycce.edu**