



K. K. Wagh Institute of Engineering Education & Research

Letter of Recommendation

It is a great delight to recommend Shreyas for admission to the Ph.D program at your University. Shreyas has a deep passion for Computer Science, and I have found him to be an exceptionally gifted student. For the period I have known him, he has demonstrated all the qualities necessary to succeed in his graduate studies.

I have worked closely with Shreyas for three years, where he took several of my courses. He has always shown a knack for computer science. In his second year, he came up with a working prototype of an algorithm-to-code translator using Python. His implementation and design resembled a Lexical Analyser, a concept formally introduced in later courses. I was his teacher for Data Structures and Algorithms, and Shreyas could write many algorithms by himself before being taught. He has an innate understanding of different computation problems. He loves studying topics that aren't a part of his curriculum in order to understand the subject. When I taught him the course on Database Management Systems, his interests lay in relational calculus and relational algebra and the formal foundations of query languages using mathematical logic, which other engineering students tend to avoid.

Shreyas would often engage in class discussions and would ask thought-provoking questions. He is a zealous individual who has always excelled in a competitive academic environment. He scored the highest GPA and was ranked 1st across all the engineering departments in the institution.

In his Third year of engineering, I was Shreyas' advisor for a seminar that was a part of his bachelor's curriculum. He chose to further a topic that he had worked on previously, where he had used deep learning techniques for Galaxy Morphology Classification. We used to have regular meetings about his progress, where he showed an excellent understanding of machine learning, deep learning, and the complex mathematical concepts driving them. His research used to be extremely thorough and complete, and he expressed each idea briefly and precisely, which was appreciable at his level. The manner in which he built on top of his own work and his own research, along with other approaches, was impressive. He demonstrated good oratory and presentation skills when delivering his seminar to his peers and faculty. He effectively communicated the relevance of the problem and the different solutions he had researched. As his advisor, I was extremely content with his delivery and how he worked on the topic. He has demonstrated good dexterity in academic research and shows promise as a researcher, capable of conducting original research on his own efficiently.

Shreyas' inquisitiveness helped him dive into the realm of General Relativity for astrophysics. He worked on a project called EinsteinPy and demonstrated his resourcefulness by contributing to the project after only studying General Relativity in a short span of fifteen days. In the various projects that he has done as part of his coursework, he has always shown great leadership skills. He assumes responsibility for a project and makes quick decisions with his critical thinking. He is good at resource management. He understands his associates' strengths and delegates tasks accordingly. He partitions them to reduce coupling and dependency, ensuring the smooth progress of the project. I have seen his project management skills improve over the years and he has proven to be an effective leader who is well-respected by his teammates.

Besides his seminar, he has conducted various workshops on various topics like Neural Networks and CuDA programming for his peers and juniors. I attended his Neural Networks lecture and was pleasantly surprised by his teaching skills. He would not shy away from the complex mathematics and

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would navigate through it with intuition, which everyone could follow. He kindled an interest in deep learning among his juniors.

He manages his time effectively and participates in various extra-curricular and co-curricular activities. He was the committee president in our institution's Computer Society of India branch. He has an easy-going personality most of the time, but his strength of conviction is commendable. He will always speak up on topics that he disagrees with and will continue the discussion unless he is convinced otherwise. He is an independent thinker and always challenges prevailing viewpoints and his qualities are demonstrated by him winning the award for the Best Outgoing Student of the department for his personality and academic achievements.

I view him as an intelligent, hard-working, and versatile individual with a great personality. He has proven his capability as a budding researcher time and time again. He is a genuine and soft-spoken candidate, and I wish him success in this program; it will serve as an ideal stepping stone to exploring his interests and career goals. He will undoubtedly thrive and leave a lasting impression at your university.

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