



Letter of Recommendation

I am writing this letter on behalf of Mr. Irtaza Sajid Qureshi who is known to since 2022. He was a student in one of the advanced courses of Digital Image Processing I taught for Spring 2022. Right off the bat, Irtaza showed true passion by actively taking part the lectures and discussing novel ideas while keeping computational restrictions in mind.

During the course, he focused on bringing significant number to the table however necessary. With each assignment, he used computational hours to his advantage by playing around with hyperparameters and went way beyond the requirements, by achieving over 90% accurate results. Furthermore, for the semester project of semantic segmentation and classification of medical images, he produced results with 96% accuracy by testing a simple CNN model, models inspired by recent research papers, transfer learning and stacked transfer learning on multiple renowned CNN models. Further, he added a portion of how he would further proceed with the project. This was truly impressive since this was his first advanced project involving CNNs and Deep Learning.

Currently, Irtaza is working under my supervision for his capstone project. He is working on a Deep Learning Cloud Based Application for Radiology Reports using Vision Transformers. Irtaza is leading the group with bringing innovative ideas to the table. During the start, his primary objective was finding critical issues in current research. Understanding what's possible, what's been done and what could further be done is one of the most commendable qualities I found about him. He truly has the aptitude to become a great researcher.

Irtaza has very strong educational background. He is currently pursuing bachelor's in computer engineering (graduating summer 2023) from National University of Sciences and Technology (NUST), which is the top technical university in Pakistan. The admission process at NUST is so competitive that only top 10% students are admitted in NUST. Therefore, our students are undoubtedly the best students in the country. Due to the competitive admission process and relative grading system at NUST, maintaining a CGPA of 3 is considered an achievement. I can say with pleasure that Irtaza is one of the high achievers and is currently maintaining a CGPA of 3.85.

I have found Irtaza to be an intelligent and very capable student. I understand that he is currently applying for a Master studentship. Time and again Irtaza has proven himself and I have absolutely no reservations about recommending him as I am confident that he will turn out to be a shining researcher if given the opportunity.

Please feel free to contact me in case you have any query. I strongly recommend him for this opportunity. If you require any further information concerning this matter, please don't hesitate to get in touch with me.



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