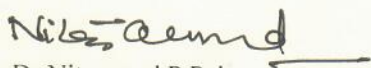## LETTER OF RECOMMENDATION

It is a pleasure to recommend Mr. Dwaraknath Gnaneshwar for a Master's program at your University. I have taught 'Mathematical Modelling' in his 6th semester and guided him on his projects '*Locating Radiation Sources Through Simulation*' and '*Cyclone Prediction Using Probabilistic Models*'. He was one of the top ranked students in the subject. I am confident that Dwarak's passion towards engineering, and his high aptitude with commendable qualities will make him a powerful asset to your institution.

Dwarak is a devoted student with a strong inquisitiveness who is constantly on the lookout for new opportunities that bring him closer to a world-class engineer. He has taken the initiative of leading the college team to take part in highly competitive national level competitions including '*All India Research Championship*' at IIT Kanpur and finished with All India Rank 4, establishing himself among the best engineering students in the country. He displayed a deep understanding of mathematical modelling of physical systems when he led the college in '*Smart India Hackathon*'. He worked on a project for the Department of Atomic Energy to identify radiation sources by simulating the reverse boltzmann transport equations and finished runner's up in the hackathon. Dwarak displayed impressive engineering skills in software engineering and picked up tools like CUDA, C++ and OpenGL relatively quickly to polish and package his code into neat and usable software.

Dwarak's passion was evident when he started C.I.T.R.A, a research society, at our institution. He reached out to the department of mathematics, along with other departments, to create a platform where students and faculty can interact. He successfully introduced many students to concepts in mathematics, machine learning by conducting bridge courses to guide students and has made significant efforts in connecting students to professors that resulted in many published papers. Dwarak keeps me updated regularly on his current projects and we have healthy discussions about various interdisciplinary ideas. Despite his major being in Information Technology, I was very impressed to see his projects involving various domains of engineering like weather prediction, simulations, distributed ML, Natural Language Processing etc. He has further bolstered this approach by specializing in Computational Mathematics. His formal training in mathematics and knack for designing and engineering large and scalable systems makes me strongly believe his career as a problem solver is on the right track.

Dwarak's high calibre in research allowed him to be inducted as a machine learning research intern at '*IBM Research*', one of the most prestigious research labs in the world. He received an invitation to work with '*OATML Group*' at '*University of Oxford*' on his bachelor's thesis project on '*Fast Bayesian Deep Learning*'. Above all, Dwarak is sincere, persistent and hardworking and takes great pride in his work. I strongly believe that he will add immense value to your institution and it will give him the platform he needs to turn his aspirations into reality.

If you have any questions regarding Mr. Dwaraknath Gnanehswar or this recommendation, please feel free to contact me.

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