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**Letter of Recommendation for Mr. Nadeem Said**

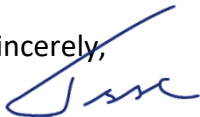
I am honoured to recommend Mr. Nadeem Said for a University of Waterloo Co-op award, based on his exceptional performance during this term. I had the privilege of overseeing Mr. Said's work on a highly complex project. Mr. Said was responsible for the development of a new Large Language Model (LLM) system for specific knowledge domain. The system will be commercialized as a Software as a Service (SaaS), and therefore, was much more complex to develop, requiring a web-based portal, trained DNN, report generation, database management, among other sophisticated technologies. He developed software tools to tune, train, and predict based on queries. As an example, Mr. Said single-handedly developed QUIN, a LLM that goes beyond anything that ChatGPT4 can do in the area of Emergency Response.

Mr. Said had a positive impact in the development team and among the staff in the company. He took a leadership role on decision of technologies to adopt and solutions to hurdles that development always encounter. His positive attitude and participation in company events demonstrates his communication skills and teamwork participation, which are the qualities of a future successful manager. The range of Artificial Intelligence A.I. system technologies Mr. Said developed, went from research and development to prototype, ending at an enterprise level SaaS.

This new LLM A.I. system infrastructure, which Mr. Said had the major role, will have a tremendous impact on Lakes Environmental Software business. We already have interested customers. Some of these are for the protection of human health from emergency events (e.g., accidental release of toxic, radiological, or flammable materials), reduction of the application of pesticides, and cities that want to estimate future air pollution concentration to protect urban human health.

I need to conclude this recommendation by indicating that initially we assigned to Mr. Said only a small fraction of the total development. His proactive attitude benefited the company way beyond our expectations. After completion of his tasks, always ahead of our schedule, Mr. Said extended both his knowledge and our products, by inserting his talents into new artificial intelligence applications to the system. His outstanding performance definitely merits public recognition both by the company and by the University of Waterloo.

Sincerely,



Prof. Jesse Van Griensven Thé, Ph.D., P.Eng.

CEO

Waterloo, April 30, 2024