Dear Recruiter,

I am applying for the Data Scientist role advertised in SEEK for Freelancer International. I am currently pursuing a machine learning research internship at Canon Information Systems Research, Australia (CiSRA) under the supervision of Dr. Nagita Mehrseresht (Principal Research Engineer) and Dr. Jeroen Vendrig (Research Manager). Additionally I am on a program leave from the final phase of my PhD in Computer Science in the University of New South Wales, Canberra under the supervision of Professor Tapabrata Ray and Dr. Hemant Kumar Singh. I have successfully carried out several projects in the area of optimization, machine learning and data analysis using the state of art programming languages such as Python and MATLAB. Please take note that in the event I am successful to get the position, I will be able to start from March, 2018 at the earliest.

I deal with large data on a daily basis and formulating a physical phenomenon with lots/little data into a machine learning/optimization problem is what interests me.

During my internship period, I have been involved in a project of action understanding from videos which involves handling large amount of video data and devise machine learning techniques to solve the problem. I have experience in supervised, unsupervised, reinforcement learning along with meta-learning which I am currently looking into. I have used LSTMs, CNNs within TensorFlow environment in Python to tackle this problem. I have also frequently used classification, regression, random forest, decision tree and time series related problems.

During my PhD tenure, I have developed several nature-inspired algorithms to deal with computationally expensive optimization problems occurred in engineering domains such as flapping wing design, ship design, wind farm layout design etc. I have extensively used data driven surrogate assisted and multi-fidelity techniques to learn the design landscape quickly with 30% reduced computational burden on practical problems. I have frequently used Python, MATLAB and several visualization tools during prototyping and development.

Additionally, I have attracted several international and domestic funding such as I was a partner investigator in **Australia-Germany Joint Cooperation Grant** (Singh, Bhattacharjee, Ray, Mostaghim, Moritz) on "Identification of solutions of interest to aid evolutionary multi-objective optimization and decision- making" awarded by **Universities Australia** and **DAAD** for 2017-2018 (23.5K AUD) and I was one out of the three recipients (worldwide) of 2016 **IEEE CIS Graduate Student Research Grant** (2.6K USD) which allowed me to visit Professor Qingfu Zhang's group in the City University of Hong Kong for two weeks. I have served as a member of the Program Committee of a number of premier international and local conferences in the field of artificial intelligence and as a regular reviewer in top journals such as IEEE Transactions on Evolutionary Computation, IEEE Transactions on Cybernetics and many more. I have authored/co-authored 1 book chapter, 7 peer reviewed journal papers, 5 peer reviewed lecture notes and 3 peer reviewed conference papers in the last three years.

The reason, I want to be in this role is to improve my skills and learn new skills along the way. I have been working in engineering domain so far and solved several challenging problems by developing novel computational tools. It is of my extreme interest to find the underlying physical meaning of data to drive accurate decision making in terms of business needs. Therefore, it's time that I apply my skills in some real world challenging problems. I am looking for building a solid career; hence, salary expectation is not a big issue for me as long as it satisfies the minimum threshold.

Finally, I want to thank you for your time and consideration and I look forward to hearing from you.

Thanks and best regards

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