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Respected Hiring Manager,

My name is Devesh Datwani and I am a robotics engineering graduate student at the Worcester Polytechnic Institute, MA, USA. Kindly go through my portfolio: deveshdatwani.com for any additional information.

This is to express my interest for a full time opportunity starting Summer of '23 for the listed position and to articulate my skill set in deep & machine learning to support my claim of being a great fit for the role.

My ML/AI journey dates back in high school some 10 years ago when I started designing and building semi autonomous fixed wing aircraft powered by gas and electric motors to satiation my passion for aviation. The next consequent step was to build skill set for their autonomy.

For this I pursued an undergraduate study in mechanical engineering and robotics engineering as graduate study subsequently. My stint with machine learning has involved working as a data analyst at a digital marketing firm and at labs such as the Human Inspired Robotics Lab, Surface Meteorology Lab at the Worcester Polytechnic Institute wherein I gained experience in solving problems with machine learning algorithms.

My expertise in ML/AI is built over strong foundations in; linear algebra; concepts of probability, machine learning algorithms like SVM, linear regression, random forest and deep learning approaches for multi-scale object detection and image segmentation. My programming strongholds involve proficiency in Python, C++, MATLAB and libraries such as STL, PyTorch, TensorFlow, OpenCV, Scikit-Learn and Numpy.

The most important capability apart from my technical skill set is my affinity to solve challenging problems in collaboration with others, which is to say that I am a team player. However, when required, I have led successful research projects in the past.

Through this letter, I would like to highlight my latest experience where I worked with the Worcester Fire Department to build a fire safety solution. My team and I ended up building a novel technique that involved building a scalable mobile robot solution with lidars for mapping indoor environments through PCA and KMeans clustering of change maps to evaluate fire safety. I believe this experience exhibits my ability to engage with stakeholders, identify problem statements, think critically and build a solve problems.

With this I submit to your fine sense of judgement to take a decision on my application.

Sincerely,
Devesh Datwani