Praveen Dhananjaya

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Mila   June 10, 2021

Dear Sir,

I am writing to express my interest in an internship at Mila. As it has always been my age-long ambition to become an artificial intelligent developer and researcher. I'm a third year computer engineering student at the University of Peradeniya, Sri Lanka. I am writing to get an internship in October/2021 to March/2022 for the time period.

I have hands-on experience in cyber physical systems and I am interested in Ai base robotics control systems , sensor pattern recognitions and emotional recognition systems. I alway wanted to explore fields like self driving, human interactive robotic assistant system, etc and not only because of their intriguing and challenging nature but also due to their many potential applications. Such as full autonomous vehicles, industrial automation, virtual assistant systems and many more.

Relevant Coursework:

1. Neural Networks and Fuzzy Systems , university course (current)

   - Fuzzy pattern recognition, fuzzy control systems.
   - Fuzzy nonlinear simulation, fuzzy decision making, cluster analysis, fuzzy c-means
   - Supervised learning, unsupervised learning, reinforced learning, competitive learning, the delta rule,
   - Hebbian and Hopefield learning algorithm
   - Adaline and Madaline models

2. Machine Learning and Data Mining , university course (current)

   - supervised learning , ANNs (Perceptron, MLP, RNN)
   - Decision Trees , Classification Rules , Dimensionality Reduction - PCA
   - Instance Based Learning , Clustering -Ensemble learning

3. Neural Networks and Deep Learning , Course Deeplearning.AI

   - Shallow Neural Networks forward propagation and backpropagation.
   - Neural Networks speed up using vectorization
   - Deep Neural Networks for image classification

I believe that there is no better place to explore machine learning and AI with real world problems. Much of my experience is in cyber physical systems. and They can be extendable ,

specifically in the areas of self drive, human assistance systems ,etc. I am looking forward to working with you on AI based cyber physical systems project. I consider it a vibrant experience to get the opportunity to work with experts and students from all over the world.

Sincerely
Praveen Dhananjaya