Machine Learning Research Laboratory

Dept. of CSE, Delhi Technological University, Delhi-42

Applications for Research/Industrial Projects

Applications are invited from **B. Tech (3rd year)** students interested in Research/Industrial Projects under **Dr. Anil Singh Parihar** in The Machine Learning Research Lab.

Machine Learning Research Lab (MLRL) is established to facilitate high-end research in the area of machine learning/deep learning in various fields like Computer Vision, NLP, SDN etc. The MLRL has high-end computing power i.e. latest NVIDIA GPUs.

The lab has collaborations with premier industrial research labs such as **Adobe Inc.**

Fill this form ONLY if you are sincerely willing to work with full commitment and dedication.

S. No.	Area	Prerequisite(s)	Desired skills
1.	Software-Defined Networking	Working knowledge of Machine Learning & Deep Learning Programming in Python	Comfortable with the following Python framework: Numpy, pandas, matplotlib, os. Knowledge of the following Python frameworks is a plus: TensorFlow/PyTorch, Keras, NLTK/OpenCV Deep understanding of Basic Linux commands Attention (Encoder/Decoder) GANs Transformer (BERT,GPT, etc) Reading and understanding research papers and the ability to re-implementing those papers.
2.	Computer Vision	Strong mathematics (Probability, Linear Algebra, Calculus); Basic of Computer Vision (Preferably completed some course on CV) Working knowledge of Machine Learning & Deep Learning Programming in Python	
3.	Natural Language Processing	Strong mathematics (Probability, Linear Algebra, Calculus); Basics of Natural Language Processing (Preferably completed some course on NLP) Working knowledge of Machine Learning & Deep Learning Programming in Python	
4.	Reinforcement Learning	Very strong mathematics (Probability, Linear Algebra, Calculus); Basic of reinforcement Learning; Deep learning (including Conv Nets, Sequence Models); Programming in Python Actor-Critic Agent (RL)	Implementation of based and value-based algorithms (along with strong hold on mathematical derivations); Knowledge of different approaches in RL such as Model-based, Model-free, policy based etc.

Fill the following google form to apply for the above Research Domains

https://forms.gle/4f19BQVw7BT7RpiK9

Last date: 10.10.2020 by 5:00 pm

Sd/-

Dr. Anil Singh Parihar
Associate Professor, Dept. of CSE, DTU