Mehthab Saheba Shaik

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Education

2016–2020 **B.Tech (Hons.), Electronics and Communications Engineering**, *International Institute of Information Technology (IIIT)*, Hyderabad, India, *CGPA - 7.95/10*.

2014–2016 **Senior Secondary, Telangana Board of Intermediate Education**, *Sri Chaitanya Junior College*, Hyderabad, India, *Percentage - 96.3*.

2012–2014 **Secondary, ICSE**, *Gitanjali Senior School*, Hyderabad, India, *Percentage - 95.33*.

Projects

C, **Linux Shell**.
[link] Created a bash shell with features like piping, redirection, background & foreground processes, etc.

Python, **Dropbox**.
[link] Used socket programming to develop a dropbox like application that downloads files from a peers storage directoryand vice-versa .

Python/C++, **Extreme Tic-Tac-Toe Bot**.
[link] Developed an agent that guesses the optimal move using minimax algorithm with alpha-beta pruning, and a smart heuristic function.

C++,CUDA, **Parallel Recommender System**.
[link] Implemented parallel SVD for learning recommender matrix.

Python,torch, **ANI-1 5 Molecules**.
[link] Implemented ANI-1 model using 5 NNPs to predict atomic energies from Bahler-Parinello Symmetry functions of molecules.

[Non-Technical] Too Short to Mushroom .
[link] Designed a Board game using elements from chess and ludo.

Java, **BDI-Agents** .
[link] 4 agents of belief-desire-intention model interact with an environment(30x30 plane board) and objects(fences) to reach goal.

Python, **Transformer** .
[link] Implemented a transformer model using multi-head attantion to translate english sentences to French on a part of dataset(The TimeMachine).

Python, **[ONGOING] Transfer Learning** .
[link] Trained 2 agents(seperately) to play Doom and Space-Invaders(Atari) using Dueling-Deep-Q-Network (DDQN) and conduct(ed/ing) experiments by tranfering the parameters of trained models for conv. layers ,linear layers and dueling part of the network.

Python,Pytorch **[Tentative]ML methods for material science**.

Relevant Courses Taken

Statistical Methods in AI,Computer Programming,Data Structures, Algorithms and operating Systems,ML for Natural Sciences, Adaptive Signal Processing,Discrete Mathematics, Communication Networks,Intro to Parallel Scientific Computing,Topics in Applied Optimization, Mobile Robotics