Mehthab Saheba Shaik

CONTACT

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EDUCATION

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, HYDERABAD
Btech. in Electronics and Communications Engineering
Current Semester : 6th semester, 3rd year
Cum. GPA: 8.23

COURSEWORK

Statistical Methods in AI, Mobile Robotics, Topics in Applied Optimization Computer programming ,Data Structures and Algorithms,Discrete Mathematics(Mathematics 1),Linear Algebra and Group Theory(Mathematics 2),Probability and Random Processes, ,Intro to parallel scientific computing,game design and engineering,communication networks

SKILLS

PROGRAMMING
C/C++ - STL and OOP structure ,some meta programming experience and can use few boost libraries Python - can implement algorithms ,can use packages and libraries for ml and data handling,basic tensorflow,understand the oop structure Matlab - .mat and .m scripting , familiar with robotics,signal processing and vision tool boxes,familiar with searching and usong in-built functions as needed Basic Java- oop structure, inbuilt libraries,JS(basic)

HONORS

CENTRE FOR SECURITY,THEORY AND ALGORITHMIC RESEARSCH - CSTAR
Advisor : Dr. Pawan Kumar
Hons. Project 1 - studied kernels for machine learning (ANOVA kernel etc, kernel conjugate gradient.) and some iterative methods
Hons. Project 2 - ONGOING : will me working on some application of neural ODE method .

COURSE PROJECT WORK

Paper presentation and implementation - Nonsmooth Nonnegative Matrix Factorization(nsNMF) :tested on synthetic data and part of dataset Paper presentation and implementation - Hogwild!(abridged version) Paper Presentation and implementation - ADAM -tested on synthetic data Paper presentation and Implementation - PNAS - Acoustic Echoes reveal room shape Implementation of basic algorithms -PCA,LDA,naive bayes,linear classifier,linear SVM:tested them on part of dataset of faces provided. Implemented and tested on synthetic data- logistic regression,kernel SVM(arbitrary simple kernel),decision tree. Tested on cifar10 : PCA, LDA,decision tree, MLP classifier, SVM classifier, Logistic regression. tested on cifar10 using sklearn implementation-RBFsvm,MLPclassifier,kernel LDA,kernel PCA Implemented and tested on synthetic data and part of dataset:GMRES, CG, FGMRES,FCG,ILU,kernel CG,ADAM.
LM algorithm, trajectory planning(EKSLAM),newton descent on manifold algorithm, data structures and graph algorithms Implementation of program for fpga to deal with floating point arithmetic Designed an op-amp meeting set constraints Hardware - ambient light controlled LED, active mobile phone detector, simple audio amplifier

LANGUAGES AND WORK EXPERIENCE

English(fluent) ; TA for Digital Systems and Micro-controllers Course