

K S Bharathwaj

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Machine Learning • Computer Vision • GPGPU

EDUCATION

National Institute of Technology Tiruchirappalli

BACHELOR OF TECHNOLOGY, ELECTRICAL AND ELECTRONICS ENGINEERING
Cum GPA: 8.39/10

Tiruchirapalli, India

May 2018 (Expected)

Vidya Mandir Sr Sec School

HIGH SCHOOL (SCORE: 96.2%)

Chennai, India

March 2014

EXPERIENCE

Indian Institute of Technology (IIT), Delhi | RESEARCH INTERN

Jul 2016 - Aug 2016 | Delhi, India

MENTOR: DR. RAHUL GARG

- Worked on the parallel implementation of full-brain auto regressive modelling.
- The method is based on the Granger causality analysis of multivariate linear models, solved by means of a sparse regression approach.
- Implemented a CUDA application to accelerate the computation which resulted in saving an estimated time of 9 hours
- Achieved 16.8 Gflops for the fastest kernel.

Delta Force (Computing Club, NIT Trichy) | APPLICATION DEVELOPER

Aug 2015 - Present | Tiruchirappalli, India

- Developed android mobile applications for university related cultural and technical fests.
- Conducted workshop on Image processing using OpenCV as part of Currents'16.
- Work on problems related to Machine Learning.
- Part of team that developed Pragyan Premier League an on-line fantasy cricket game incorporating basic concepts of Artificial Intelligence.

PROJECTS

Random Decision Classifier

Dec 2016 - Present | Tiruchirappalli, India

MENTOR: DR. E.S.GOPI

- Obtained about 70% improvement on a bi-variate classifier.
- Working on implementation of multivariate random classifiers based on Mini-Max rule and Bayes cost function.

Root Cause analysis for Twitter feeds

Mine data from twitter about a particular topic. Classify the feeds as positive, negative and neutral and perform Root Cause analysis on negative feeds.

COURSEWORK

UNDERGRADUATE

Data Structures & Algorithms
Pattern Recognition*

INDEPENDENT

Machine Learning
Artificial Neural Networks
Parallel Computing
Image and Video Processing
Mobile Application Development
Natural Language Processing*
(*InProgress)

PROGRAMMING

PROFICIENT

C • C++ • Java • Android
CUDA C/C++ • OpenCL C/C++

FAMILIAR

Python • Matlab/Octave • Git
Tensorflow • Caffe • OpenCV
HTML • MySQL • R • \LaTeX

APPS-GOOGLE PLAY

Festember'15 • Pragyan'15
Nittfest'16 • Festember'16

AWARDS

- Finalist SCDC by Shaastra, IIT Madras (2016)
- Second GPU coding by Pragyan, NIT Trichy (2015)
- Inspire Scholarship - MHRD, Govt. of India (2014)

RESPONSIBILITIES

- Head of Web Operations, NITTFEST' 17
- School Prefect