
EDUCATION

Indian Institute of Technology Delhi, Delhi, India

- Ph.D. School of Information Technology Jan 2020 – Present
 - Google PhD Fellow
- Masters(MS Research) School of Information Technology Jan 2018 – Dec 2019
 - CGPA := 9.75 on a scale of 10

Indian Institute of Technology Roorkee, Uttarakhand, India

Jul 2013 – Jun 2017

- Bachelor of Technology: Major in Civil Engineering with Minor in Computer Science and Engineering
 - CGPA := 8.5 on a scale of 10.0

Ramjas Public School, Delhi, India

- XII : 93% with Computer Science Mar 2013
- X : CGPA := 9.6 on a scale of 10.0 Mar 2011

PUBLICATIONS

- *DECAF: Deep extreme classification with label features*, **A. Mittal**, K. Dahiya, S. Agrawal, D. Saini, S. Agarwal, P. Kar and M. Varma, WSDM, 2021 ([link](#))
- *DeepXML: A deep extreme multi-Label learning framework applied to short text documents*, K. Dahiya, D. Saini, **A. Mittal**, A. Shaw, K. Dave, A. Soni, H. Jain, S. Agarwal and M. Varma, WSDM, 2021 ([link](#))
- *A modified LSTM model for continuous sign language recognition using leap motion*, **A. Mittal**, P. Kumar, P.P. Roy, B. Raman and B.B. Chaudhuri, IEEE Sensors Journal ([link](#))
- *Rotation and Script Independent Text Detection from Video Frames using Sub Pixel Mapping*, **A. Mittal**, P.P. Roy and B. Raman, Journal of Visual Communication and Image Representation ([link](#))
- *Data extraction from traffic videos using machine learning approach*, **A. Mittal**, M. Gupta and I. Ghosh, Soft Computing for Problem Solving, 2017 ([link](#))
- *Multi-Oriented Text Detection from Video using Sub-Pixel Mapping*, **A. Mittal**, P.P. Roy and B. Raman, in CVIP ([link](#))

RESEARCH PROJECTS

Indian Institute of Technology Delhi

- Extreme classification - supervisor: **Dr. Manik Varma** and **Dr. Sumeet Agrawal**
 - Developed first scalable (upto 20M) as well as accurate deep learning algorithm for the extreme multi-label classification. Jan 2018 – present

Indian Institute of Technology Roorkee

- Computer Vision Lab - supervisor: **Dr. P. P. Roy** and **Dr. R. Balasubramanian**
 - Recognition of sign language for differently able. Jun 2016 – Oct 2016
 - A novel 4 gated LSTM was developed for real time sentence translation and segmentation.
 - A accuracy for 89.6% was achieved.
 - Rotation and script independent text detection from video frames using sub pixel mapping Dec 2015 – Feb 2016
 - A robust multi-script text recognition algorithm was developed with the accuracy of 94.1%.
 - Simultaneous 4 scripts were recognised and translated.
- Optimisation Lab - supervisor: **Dr. R. Chowdhury**
 - Urban area road network development using Genetic Algorithm. Jan 2016 – Apr 2016
 - Using NSGA-III and NEAT algorithm a self optimising road network system was developed.
 - Algorithm improved the efficiency of IIT-Roorkee road networks and increased economic profits by net 15%.

RESEARCH INTERSHIPS

Indian Institute of Technology Madras

- Intelligent Transportation System - supervisor: **Dr. G. Ramadurai** and **Dr. I. Ghosh** May 2015 – Jun 2015

Indraprastha Institute of Information Technology Delhi

- Infosys Center for Artificial Intelligence - supervisor: **Dr. C. Arora** May 2016 – Jul 2016

WORK EXPERIENCE

Consultant I, Exl Analytics

Jul 2017 – Dec 2017

COMPUTER SKILLS

PROGRAMING LANGUAGES, C#, C++, PYTHON, PHP, JavaScript, R, LUA

TOOLS AND TECHNOLOGIES Eagle Board-xm, Raspberry pi, L^AT_EX, SQL

LIBRARIES theano, CUDDA, CAFFE, OpenCV, Tensor Flow, PyTorch