

# ANSHUL MITTAL

me@anshulmittal.org  $\diamond$  anshulmittal.org

## EDUCATION

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**Ph.D. in Multi-modal representation using deep learning for extreme multi-label learning** Jan. 2019 - Present  
**Google Ph.D. Fellow - 2019**  
Indian Institute of Technology Delhi, India CGPA : 10/10

**MS(R) in Deep extreme multi-label learning** Jan. 2017 - Jan. 2019  
Indian Institute of Technology Delhi, India CGPA : 9.75/10

**B. Tech. in Civil Engineering with minors in Computer Science** Aug. 2013 - Jul. 2017  
Indian Institute of Technology Roorkee, India CGPA : 8.53/10

## COURSE WORK

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Information Retrieval	A	Computer Vision	A	Deep learning	A
Machine Learning	A-	Numerical Optimization	A-	NLP	A-

## SKILLS

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**Programming Languages:** PYTHON, C#, C++, PHP, JavaScript  
**Tools and technologies:** Beagle Board-xm, Raspberry pi,  $\text{\LaTeX}$ , SQL  
**Libraries:** CAFFE, OpenCV, Tensor Flow, PyTorch

## PUBLICATIONS

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Multimodal extreme classification,  
**A. Mittal**, K. Dahiya, S. Malani, J. Ramaswamy, S. Kuruvilla,  
J. Ajmera, K. H. Chang, S. Agarwal, P. Kar and M. Varma CVPR, 2022

ECLARE: Extreme classification with label graph correlations,  
**A. Mittal**, N. Sachdeva, S. Agrawal, S. Agarwal, P. Kar and M. Varma WWW, 2021

DECAF: Deep extreme classification with label features,  
**A. Mittal**, K. Dahiya, S. Agrawal, D. Saini, S. Agarwal, P. Kar and M. Varma WSDM, 2021

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

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, 2019

Rotation and Script Independent Text Detection from Video Frames using Sub Pixel Mapping,  
**A. Mittal**, P.P. Roy and B. Raman JVCIR

Data extraction from traffic videos using machine learning approach,  
**A. Mittal**, M. Gupta and I. Ghosh SoCProS, 2017

## RESEARCH INTERN

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- **Google Research - India**  
Machine Learning and Optimization : **Dr. P. Jain** May 2022 - Jul 2022
- **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

## MISCELLANEOUS

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- [Talk]: Google Ph.D. Fellow summit 2021
- [Talk]: Amazon Science research group 2021
- [Award]: Google Ph.D. Fellowship 2019
- [Award]: Project Citizen India (Outstanding Award) 2008