Avijit Dasgupta

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https://avijit9.github.io

EDUCATION

IIIT Hyderabad, India — Dec, 2016 - Present
Ph.D. in Computer Science and Engineering — DGPA: 8.4/10.0
Specialization: Computer Vision, Machine Learning, and Reinforcement Learning
Advisor: Dr. Karteek Alahari and Prof. C. V. Jawahar

St. Thomas' College of Engineering and Technology, India — 2009 - 2013
B.Tech. in Electronics and Communication Engineering — DGPA: 8.37/10.0

WORK EXPERIENCE

- **Machine Learning Freelancer** — September, 2019 - Present
  Websites: Codementor, Upwork Area: Mentored over
- **Visiting Research Fellow** — February, 2019 - May, 2019
  Inria Grenoble - Rhne-Alpes, Grenoble, France
  Advisor: Dr. Karteek Alahari
- **Research Intern** — October, 2016 - December, 2016
  CVIT Lab, IIIT, Hyderabad, India
  Advisor: Prof. C. V. Jawahar
- **Junior Research Fellow** — July, 2014 - September, 2016
  Indian Institute of Technology Kharagpur, India
  Advisor: Dr. Sudipta Mukhopadhyay
- **Research Intern** — June, 2012 - July, 2013
  Machine Intelligence Unit, ISI Kolkata, India
  Advisor: Dr. Kuntal Ghosh

RELEVANT RESEARCH PROJECTS

Deep Neural Network Visualizations — Oct, 2016 - Dec, 2016
International Institute of Information Technology, Hyderabad

- Understanding and implementing the deep neural network visualization techniques proposed till date.
- Tools Used: MatConvNet, Caffe, Keras
- Advisor: Prof. C. V. Jawahar

Visual Recognition from YouTube Videos — June, 2014 - June, 2015
Independent Research Project

- Developing a unified *Boosting* framework to address the problem of detection, recognition and tracking people in youtube videos.
- Tools Used: MATLAB
- Collaborator: Sujoy K. Biswas

PUBLICATIONS

Avijit Dasgupta, C. V. Jawahar, and Karteek Alahari, *Context Aware Group Activity Recognition*, **ICPR 2020**.

Avijit Dasgupta* and Sonam Singh*, *A Fully Convolutional Neural Network based Structured Prediction Approach Towards the Retinal Vessel Segmentation*, **ISBI 2017**.

Avijit Dasgupta, S. Mukhopadhyay, S. A. Mehre and P. Bhattacharyya, *Morphological Geodesic Active Contour based Automatic Aorta Segmentation in Thoracic CT Images*, **CVIP 2016**.

Avijit Dasgupta, A. Bakshi and K. Ghosh, *Lateral Inhibition based Holistic Approach to Adaptive Image Enhancement*, **IACC 2013**.

AWARDS AND HONORS

Received **IFCPAR/CEFIPRA 2019** grant to visit THOTH lab at Inria Grenoble - Rhne-Alpes, Grenoble, France.

Awarded the **Google India PhD Fellowship, 2017** in Machine Perception, Speech Technology and Computer Vision (One out of 4 awardees selected across India)

Received travel grant from Indian Council of Medical Research (ICMR) to attend ISBI 2017, Melbourne, Australia

Awarded **Junior Research Fellowship** from Ministry of Human Resource Development (MHRD)

Service

- Reviewer for TMI, JBHI, CIBM

SKILL SET

- Programming Languages: C, C++, Python, Java
- Tools: LaTeX, Git, Bitbucket, MATLAB
- Libraries: CVX, OpenCV, Piotr Dollar's Toolbox, VlFeat, Matlab Toolbox
- Deep Learning Libraries: Pytorch, Tensorflow, JAX

Open source

- **torchvision:** An active contributor to the official repository of *torchvision*.

REFERENCES Available upon request