

# Aditya Arun

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<https://adityaarun1.github.io/>

- EDUCATION** *International Institute of Information Technology (IIIT), Hyderabad*  
Ph.D., Computer Science and Engineering 2016 - Present<sup>1</sup>  
Advisors: Prof. C.V. Jawahar & Prof. M. Pawan Kumar  
CGPA: 8.14
- International Institute of Information Technology (IIIT), Hyderabad*  
M.S., Computer Science and Engineering 2014 - 2016  
Advisor: Prof. C.V. Jawahar  
(Transferred to Ph.D. program)
- Birla Institute of Technology (BIT), Mesra*  
B.E., Computer Science and Engineering 2009-2013  
Advisor: Prof. Soumya Banerjee  
Result: First Class with Distinction
- EXPERIENCE** *Cognizer.ai*  
*Senior Research Analyst and Advisor* July 2021 - October 2022
- Drishyam.ai (acquired by Mediaocean)*  
*Chief Technology Officer* June 2018 - April 2020
- IBM India Pvt. Ltd.*  
*Associate System Engineer* June 2013 - July 2014  
Role: Data Specialist
- PUBLICATIONS** *Aditya Arun, C.V. Jawahar, M. Pawan Kumar. **Weakly Supervised Instance Segmentation by Learning Annotation Consistent Instances**, In Proceedings of European Conference on Computer Vision (ECCV), 2020.*
- Aditya Arun, C.V. Jawahar, M. Pawan Kumar, **Dissimilarity Coefficient Based Weakly Supervised Object Detection**, In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.*
- Aditya Arun, C.V. Jawahar, M. Pawan Kumar, **Learning Human Poses from Actions**, In Proceedings of the British Machine Vision Conference (BMVC), 2018.*
- PATENTS** *Aditya Arun, **Semantic Frame Understanding using Transformers**, US Patent (In Submission).*<sup>2</sup>
- INTERNSHIPS** *Recovery of 3D Structure based on Point Correspondences*  
Adviser: Prof. Anoop M. Namboodiri May - July, 2012  
*Center for Visual Information Technology, IIIT Hyderabad*

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<sup>1</sup>I was on medical leave from April 2020 to December 2023

<sup>2</sup>Work done at Cognizer.ai

## **Human Computer Interaction**

Advisers: *Mr. Jitendra Bhardwaj and Prof. K.S. Venkatesh* June - July, 2011  
*Innosium Technologies & Department of Electrical Engineering, IIT Kanpur*

## **MAJOR PROJECTS**

***Open Domain Conversational Question Answering and Similarity Search using Multi-Model Vector Database System and Knowledge Graph***  
*Cognizer.ai* July 2021 - October 2022

***Text to Gremlin/Cypher: A Natural Language Interface to Graph Databases***  
*Cognizer.ai* July 2021 - October 2022

***Learning Out of Distribution Fine-Grained Object Detection Model***  
*Drishyam.ai* June 2018 - July 2020

***Search and Exploration Task for Multi-Robot System: A Social Learning Approach*** - Final Year Project  
Adviser: *Prof. Soumya Banerjee* July 2012 - April 2013  
*Birla Institute of Technology, Mesra*

## **AWARDS AND FELLOWSHIPS**

- Awarded outstanding reviewer award for CVPR 2021
- Awarded Google travel support for CVPR 2019
- Awarded Visvesvaraya PhD Fellowship for PhD research and studies.
- Awarded IIIT Hyderabad Institute Fellowship for MS by Research (CSE) and PhD (CSE) research program.
- Awarded *CSE Department Award* for best final year project at *BIT Mesra*.
- Merit award for securing 7<sup>th</sup> position in the class of 118 students in B.E., Department of CSE, at *BIT Mesra*. (Awarded to top 10% students in each department).
- Won 3rd prize (among 84 teams from across India) in Microsoft Garage Hackathon, 2017 for our project *Daredevil* - which brings human echolocation to the masses using a smartphone camera.

## **OTHER ACTIVITIES**

- Reviewer for TPAMI, CVIU, TMM, CVPR, ICCV, ACCV, WACV, ICVGIP, NCVPRIPG
- Teaching assistant for Summer School on Computer Vision and Summer School on Machine Learning held at IIIT Hyderabad from 2016-2023
- Server system admin at CVIT, IIIT Hyderabad from 2015-2018
- Teaching volunteer (Math and Science) at Aasha Kiran from 2015-2018 (Asha Kiran a ray of Hope, is a school run by IIIT-H students for kids from nearby slums)

## **EXTRA CURRICULAR ACTIVITIES**

- Participated in various online coding judges like Sphere Online Judge (Spoj) and TopCoder.
- Two time inter-state Karate champion in light-weight category.
- Brown Belt (2nd Kyu) holder in Kyukushin Karate.
- Actively participated in various sports tournaments in college.

## **REFERENCES**

Prof. C.V. Jawahar, IIIT Hyderabad  
Prof. M. Pawan Kumar, University of Oxford and Deepmind