Aditya Arun

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EXPERIENCE

Adobe − Media and Data Science Research Laboratory
Machine Learning Research Scientist   July 2025 - Present

Cognizer.ai
Senior Research Analyst and Advisor   July 2021 - October 2022

Drishyam.ai (acquired by Mediaocean)
Chief Technology Officer and Cofounder   June 2018 - April 2020

IBM India Pvt. Ltd.
Associate System Engineer   June 2013 - July 2014

EDUCATION

International Institute of Information Technology (IIIT), Hyderabad
Ph.D., Computer Science and Engineering   2016 - 2025[1]
M.S., Computer Science and Engineering   2014 - 2016[2]
Advisors: Prof. C.V. Jawahar & Prof. M. Pawan Kumar
Thesis: *Learning with Weak Supervision for Visual Scene Understanding*

Birla Institute of Technology (BIT), Mesra
B.E., Computer Science and Engineering   2009-2013
Advisor: Prof. Soumya Banerjee
Result: First Class with Distinction

PUBLICATIONS

7. Megha Mariam K M, *Aditya Arun*, Zakaria Laskar, C.V. Jawahar. **PhyEduVideo: A Benchmark for Evaluating Text-to-Video Models for Physics Education**, In **WACV**, 2026.

6. C.V. Rishi, Farzana S, Shubham Goel, *Aditya Arun*, C.V. Jawahar. **How Does India Cook Biryani?**, In **ICVGIP**, 2025. (**Oral**)

5. Yash Arora, *Aditya Arun*, C.V. Jawahar. **What is there in an Indian Thali?**, In **ICVGIP**, 2025.

4. *Aditya Arun*, C.V. Jawahar, M. Pawan Kumar. **Spatial Consistency Enhanced Dissimilarity Coefficient based Weakly Supervised Object Detection**, In Submission, 2024.

3. *Aditya Arun*, C.V. Jawahar, M. Pawan Kumar. **Weakly Supervised Instance Segmentation by Learning Annotation Consistent Instances**, In **ECCV**, 2020.

2. *Aditya Arun*, C.V. Jawahar, M. Pawan Kumar, **Dissimilarity Coefficient Based Weakly Supervised Object Detection**, In **CVPR**, 2019.

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[1]I was on medical leave from April 2020 to December 2023
[2]Transferred to Ph.D. program as part of Dual Degree (M.S. + Ph.D.)

1. *Aditya Arun*, C.V. Jawahar, M. Pawan Kumar, **Learning Human Poses from Actions**, In **BMVC**, 2018.

PATENTS Jack Porter, Rajiv Baronia, Suzanne Kirch, Vineeth Munirathnam, *Aditya Arun*, **Semantic Frame Understanding using Transformers**, WO 2023/069396, PCT/US2022/046967.[3]

INTERNSHIPS ***Recovery of 3D Structure based on Point Correspondences***
Adviser: *Prof. Anoop M. Namboodiri* May - July, 2012
Center for Visual Information Technology, IIIT Hyderabad

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 2025, 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$^{\text{th}}$ 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 2016-2024
– 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)

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[3]Work done at Cognizer.ai