

## Rahul Anand Sharma

---

Btech + MS by Research

Guide: Dr. C.V. Jawahar & Dr. Vineet Gandhi

**About Me:** I finished my graduation (Btech + MS By Research) from International Institute of Information Technology, Hyderabad (IIIT-H) associated with Center for Visual Information Technology and advised by Prof. CV Jawahar and Dr. Vineet Gandhi .

My primary research interests include Machine Learning, Computer Vision and its applications. My Thesis is based on Automatic Analytics on Broadcast Sports Videos for Soccer and Cricket.

After Finishing up my Masters i am currently working at Microsoft Research, India as a Research Fellow

**Contact Information** Microsoft Research, India, Voice : +919703231722  
Email(O): t-rahsha@microsoft.com Email(P): rahulanandsharma@gmail.com  
Website: <https://rahul-anand.github.io/>

**Education** **International Institute of Information Technology** , Hyderabad, India  
BTech + MS by *Research* in Computer Science, 2011 - 16 GPA : 8.93/10

**Experience** *Research Fellow* September 2016 - Present  
Microsoft Research, India

- Working on Project FarmBeats: IoT for agriculture.
- Our mission is to improve farming through data-driven practices. We are inventing new ways to gather data, to store them in the cloud, and feed them back to the farmers.
- Also working on understanding Learnability of Learned Neural Networks

*Summer Intern* May 2015  
HackerRank, India

- Improved the Codechecker by adding support for Image Processing related problems.
- Ten Fold reduction in Deployment time by improvising the asset pre-compilation pipeline.
- Winner of Hackathon organized at HackerRank by Building Static code Analysis tool

*Teaching Assistant*  
IIIT Hyderabad, India

- Artificial Intelligence
- Principle of Programming Languages
- Digital Image Processing
- Digital Signal Analysis and Applications

*Research Assistant* August 2015  
IIIT Hyderabad, India

<b>Achievements</b>	<ul style="list-style-type: none"> <li>• Enlisted in Deans list of Academic and Research excellence at IIIT Hyderabad</li> <li>• Winner of IIIT-H Hackathon</li> <li>• Division 1 Coder at CodeForces with rating of 1745.</li> <li>• Ranked 16th(All India Rank) at Hacker Earth Inter University Programming Contest</li> <li>• Finished in Top Ranks at Various Programming Contests in inter-college level competitions</li> <li>• Elected member of Academic Council Student affairs committee (AC-SAC)</li> <li>• Research Work on "Fine-Grain Annotation of Cricket Videos" covered by washingtonpost, Gadgets 360, theregister and others such as thestack and slashdot</li> </ul>
<b>Interests</b>	Computer Vision, Machine Learning, Deep Learning, Networking
<b>Publications</b>	<ul style="list-style-type: none"> <li>• <b>Rahul Anand Sharma</b>, Praneeth Netrapalli, Navin Goyal &amp; Monojit Choudhary "<i>Learnability of Learned Neural Networks</i>" International Conference on Learning Representations (ICLR), 2018 (Under Review)</li> <li>• <b>Rahul Anand Sharma</b>, &amp; Ranveer Chandra "<i>DeepEdge</i>" USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2018 (Under Review)</li> <li>• <b>Rahul Anand Sharma</b>, Vineet Gandhi &amp; C.V. Jawahar "<i>Automated top view registration of broadcast football videos</i>" Winter Applications on Computer Vision (WACV), 2018</li> <li>• <b>Rahul Anand Sharma</b>, Visesh Chari, Vineet Gandhi &amp; C.V. Jawahar "<i>Automatic analysis of broadcast football videos</i>" Springer Journal on Signal, Image and Video Processing (JOSIVP), 2016</li> <li>• <b>Rahul Anand Sharma</b>, Pramod Kompalli &amp; C.V. Jawahar "<i>Fine-Grain Annotation of Cricket Videos</i>" Asian Conference on Pattern Recognition (ACPR), 2015</li> <li>• Himangi Saraogi, <b>Rahul Anand Sharma</b> &amp; Vijay Kumar "<i>Event Recognition in Broadcast Soccer Videos</i>" Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), 2016</li> </ul>
<b>Patents</b>	Filed two patents on DeepEdge
<b>References</b>	Available upon request