Rahul Anand Sharma

About Me:	My research interests include Machine Learning and its application to Computer Vision and Computer Systems

Contact Information

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Education

***International Institute of Information Technology* ,** Hyderabad, India
BTech + MS by Research in Computer Science, 2012 -2017
Advisors: Prof. C.V. Jawahar & Dr. Vineet Gandhi

Publications

- **Rahul Anand Sharma**, Praneeth Netrapalli, Navin Goyal & Monojit Choudhary *"Learnability of Learned Neural Networks"* International Conference on Learning Representations (ICLR), 2018 (Under Review)

- **Rahul Anand Sharma**, & Ranveer Chandra *"DeepEdge"* USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2018 (Under Review)

- **Rahul Anand Sharma**, Vineet Gandhi & C.V. Jawahar *"Automated top view registration of broadcast football videos"* Winter Applications on Computer Vision (WACV), 2018

- **Rahul Anand Sharma**, Visesh Chari, Vineet Gandhi & C.V. Jawahar *"Automatic analysis of broadcast football videos"* Springer Journal on Signal, Image and Video Processing (JOSIVP), 2016

- **Rahul Anand Sharma**, Pramod Kompalli & C.V. Jawahar *"Fine-Grain Annotation of Cricket Videos"* Asian Conference on Pattern Recognition (ACPR), 2015

- Himangi Saraogi, **Rahul Anand Sharma** & Vijay Kumar *"Event Recognition in Broadcast Soccer Videos"* Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP), 2016

Patents

Filed two patents on DeepEdge

Technical Skills

Languages :	C/C++, Python, Ruby, Java
OS:	GNU/Linux, Windows
Web:	HTML, CSS, JavaScript, PHP, AJAX
Others:	Matlab, OpenCV, MySQL

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.
- Won Hackathon by building Static code Analysis tool

Teaching Assistant
IIIT Hyderabad, India

- Aritifical Intelligence
- Principle of Programming Languages

- Digital Image Processing
- Digital Signal Analysis and Applications

Research Assistant   August 2015
IIIT Hyderabad, India

Achievements

- Made into Deans list of Academic and Research excellence at IIIT Hyderabad
- Winner of IIIT-H Hackathon
- Division 1 Coder at CodeForces with rating of 1745.
- Ranked 16th(All India Rank) at Hacker Earth Inter University Programming Contest
- Finished in Top Ranks at Various Programming Contests in inter-college level competitions
- Elected member of Academic Council Student affairs committee (AC-SAC)
- Research Work on "Fine-Grain Annotation of Cricket Videos" covered by washingtonpost, Gadgets 360, theregister and others such as thestack and slashdot

Interests   Computer Vision, Machine Learning, Deep Learning, Networking

References

- Ranveer Chandra, Principal Researcher (Microsoft Research, Redmond)
- Prof. C.V. Jawahar, Professor (IIIT Hyderabad, India)
- Praneeth Netrapalli, Researcher (Microsoft Research, India)
- Visesh Chari, Research Scientist (Amazon Lab 126, San Francisco)
- Vineet Gandhi, Assistant Professor (IIIT Hyderabad, India)