

# Harsh Rangwani

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## Education

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### Indian Institute of Science (IISc)

Bengaluru, India

PHD IN COMPUTATIONAL AND DATA SCIENCES (ADVISED BY PROF. R. VENKATESH BABU)

August 2019

- **Research Interests:** Long-Tailed Learning, Out-of-Distribution (OOD) Generalization, Generative Models, Optimization
- Cumulative Performance Index (GPA): 9.83/10

### Indian Institute Of Technology (IIT-BHU) Varanasi

Varanasi, India

B.TECH. (HONS) IN COMPUTER SCIENCE AND ENGINEERING

July 2015 - May 2019

- Department Rank 2 in Sophomore year with AP (Exceptional Performance) Grade in Artificial Intelligence.
- Cumulative Performance Index (GPA): 9.44/10

## Selected Publications

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### CONFERENCE

Hierarchical Semantic Regularization of Latent Spaces in StyleGANs

Tejan Karmali, Rishubh Parihar, Susmit Agrawal, Harsh Rangwani, Varun Jampani, Maneesh Singh, R. Venkatesh Babu

*European Conference on Computer Vision (ECCV), 2022*

A Closer Look at Smoothness in Domain Adversarial Training

Harsh Rangwani, Sumukh K Aithal, Mayank Mishra, Arihant Jain, R Venkatesh Babu

*International Conference on Machine Learning (ICML), 2022*

Cost-Sensitive Self-Training for Optimizing Non-Decomposable Metrics

Harsh Rangwani, Shrinivas Ramasubramanian, Sho Takemori, Kato Takashi, Yuhei Umeda, R Venkatesh Babu

*Neural Information Processing Systems (NeurIPS), 2022*

Escaping Saddle Points for Effective Generalization on Class-Imbalanced Data

Harsh Rangwani, Sumukh K Aithal, Mayank Mishra, R Venkatesh Babu

*Neural Information Processing Systems (NeurIPS), 2022*

Improving GANs for Long-Tailed Data through Group Spectral Regularization

Harsh Rangwani, Naman Jaswani, Tejan Karmali, Varun Jampani, R. Venkatesh Babu

*European Conference on Computer Vision (ECCV), 2022*

Class Balancing GAN with a Classifier in the Loop

Harsh Rangwani, Konda Reddy Mopuri, R Venkatesh Babu

*Conference on Uncertainty in Artificial Intelligence (UAI), 2021*

S<sup>3</sup> VAADA: Submodular Subset Selection for Virtual Adversarial Active Domain Adaptation

Harsh Rangwani, Arihant Jain, Sumukh K Aithal, R Venkatesh Babu

*International Conference on Computer Vision (ICCV), 2021*

### WORKSHOP PROCEEDINGS

NLPRL-IITBHU at SemEval-2018 Task 3: Combining linguistic features and emoji pre-trained CNN for irony detection in tweets

Harsh Rangwani, Devang Kulshreshtha, Anil Kumar Singh

*Proceedings of the 12th international workshop on semantic evaluation, 2018*

IIT (BHU) submission for the ACL shared task on named entity recognition on code-switched data

Shashwat Trivedi, Harsh Rangwani, Anil Kumar Singh

*Proceedings of the Third Workshop on Computational Approaches to Linguistic Code-Switching, 2018*

## Honors & Awards

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2022	<b>ACML Student Travel Grant</b> , , for attending ACML'22	India
2022	<b>ACM and Pratiksha Trust Travel Grant</b> , for attending ECCV'22	India
2021	<b>Qualcomm Innovation Fellowship</b> , Finalist	India
2019	<b>Prime Minister Research Fellowship</b> , PhD fellowship (1 student among 350 finalist)	India
2015	<b>JEE Advanced</b> , Ranked 877 out of 1.5 lakh students in India	India
2015	<b>JEE Main</b> , Ranked 161 out of 15 lakh students in India	India
2014	<b>KVPY</b> , Ranked 412 in India and received scholarship.	India
2013	<b>National Talent Search Examination</b> , Scholarship Recipient	India
2016	<b>Honourable Mention</b> , ACM ICPC India Regionals	Amritapuri, India
2016	<b>June Long Challenge</b> , Ranked 51st among 7937 participants in India	CodeChef

## Experience

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### Amazon.com (Outbound Marketing Automation)

Bengaluru, India

SOFTWARE DEVELOPMENT INTERNSHIP (TECHNOLOGIES - JAVA, SPRING, AND EASYMOCK)

May 2018 - July 2018

- Created a design wiki for a data component for fetching product data from Amazon API considering issues like caching, coupling and ease of usage. The data component will be a part of low latency Notification Data Retrieval Service.
- On boarded the notification program for Sneak Peek Deals Prime Day 2018 through existing packages along with end to end testing. On basis of my performance I recieved a Pre Placement Offer.

### Training and Placement Cell

IIT BHU Varanasi

LEAD PORTAL DEVELOPER AND COORDINATOR (TECHNOLOGIES - DJANGO, PYTHON, HTML AND JAVASCRIPT) | [SITE](#)

August. 2017 - Dec 2018

- Designed and Implemented the automated scheduling system of slots for campus placements based on student preferences.
- Added support for Caching (Memcache + FileBased) , Logging and Concurrent usage from backend and frontend. The portal has more then 2500 active users.

## Academic Service

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**Reviewer** ECCV 2022, ICML 2022, NeurIPS 2022, CVPR 2022, Pattern Recognition

**Volunteer** ICML 2021, ICLR 2021, NeurIPS 2020

## Skills

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**Programming** Python, C/C++, JAVA, SQL, LaTeX, JavaScript, HTML

**Frameworks** PyTorch, ScikitLearn, Django, Flask, Spring, Keras, NLTK, TestNG, Gensim, Materialize CSS

## Activities

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2021	<b>Invited Student Talk</b> , for Deep RL workshop organized by CSA, IISc	IISc
2021	<b>Teaching Assistance</b> , for Deep Learning for Computer Vision and Artificial Intelligence	IISc and IIT BHU
2018	<b>Machine Learning Reading Group</b> , Active participant and organizer of group meetings.	NLP Lab, IIT BHU
2018	<b>Oral Presentation at ACL2018</b> , Presented our work at CALCS workshop at ACL2018	Melbourne, Australia
2018	<b>Coordinator</b> , Preparing the problem statement and organizing Linguipedia (NLP Event).	Codefest
2017	<b>Co-coordinator</b> , Organizing the Byte The Bits Event a collection of Computer Science.	Technex