

# Harsh Rangwani

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## Education

### Indian Institute of Science (IISc)

Bengaluru, India

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

August 2019

- 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

## Publications

### 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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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