

MOHIT SHARMA

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EDUCATION

Indraprastha Institute of Information Technology (IIIT), Delhi *December 2019 - Present*
PhD Scholar (Microsoft Research India Joint PhD Fellow) *CGPA: 9.0/10.0*
Areas of Interest: Fairness in Machine Learning, Machine Learning Theory
Advisors: Rajiv Ratn Shah, Amit Deshpande

BML Munjal University, Haryana *September 2015 - August 2019*
B.Tech Computer Science and Engineering *CGPA: 8.38/10*
Final Project: Relationship between Learned Representations and Feature Descriptors

Mount St. Mary's School, Delhi *April 2013 - May 2015*
All India Senior School Certificate Examination, CBSE
Subjects in 12th Grade: Physics, Chemistry, Biology, Mathematics

EXPERIENCE

National Institute of Informatics, Tokyo, Japan *February 2023 - July 2023*
Research Intern
Research Intern with Prof. Shin'ichi Satoh. Working on Fairness in Machine Learning with Imperfect Sensitive Attributes.

Microsoft Research India *May 2022 - September 2022*
Research Intern
Research Intern with Dr. Amit Deshpande. Worked on topics in Fairness in Machine Learning.

MIDAS Lab, IIIT Delhi *June 2019 - June 2021*
Research Assistant
Projects: Speech Recognition on non-native English language in production, Fake News detection, Community Analysis

MIDAS Lab, IIIT Delhi *January 2019 - May 2019*
Research Intern
Projects: Statistical Methods for Speech Recognition, Survey on Classical and Deep Learning Approaches for Speech Recognition

Indian Meteorological Department *June 2017- July 2017*
Summer Trainee
Topic: Basic Analysis of Tropical Cyclone Data from FDP Reports

PUBLICATIONS

NoisyActions2M: A Multimedia Dataset for Video Understanding from Noisy Labels
Mohit Sharma, Raj Patra*, Harshal Desai*, Shruti Vyas, Yogesh Rawat, Rajiv Ratn Shah *2021*
(* - EQUAL CONTRIBUTION)
Venue: ACM Multimedia Asia (MM'Asia)
Paper Link: <https://dl.acm.org/doi/fullHtml/10.1145/3469877.3490580>

SpotFake+: A Multimodal Framework for Fake News Detection via Transfer Learning (Student Abstract)
Shivangi Singhal, Anubha Kabra*, **Mohit Sharma***, Rajiv Ratn Shah, Tanmoy Chakraborty, *2020*
Ponnuram Kumaraguru
Venue: AAAI, New York, USA, February 07-12, 2020
Paper Link: <https://ojs.aaai.org/index.php/AAAI/article/view/7230>

Analysis of Parliamentary Debate Transcripts Using Community-Based Graphical Approaches (Student Abstract)
Anjali Bhavan*, **Mohit Sharma***, Ramit Sawhney, Rajiv Ratn Shah *2020*
Venue: AAAI, New York, USA, February 07-12, 2020
Paper Link: <https://ojs.aaai.org/index.php/AAAI/article/view/7148>

Automatic Speech Recognition for Real Time Systems

Ranjodh Singh*, Hemant Yadav*, **Mohit Sharma***, Sandeep Gosain, Rajiv Ratn Shah

2019

Venue: IEEE BigMM, Singapore, September 11-13, 2019

Paper Link: <https://ieeexplore.ieee.org/document/8919271/>

Deep Learning for Speech Emotion Recognition

Anjali Bhavan, **Mohit Sharma**, Mehak Piplani, Pankaj Chauhan, Hitkul, Rajiv Ratn Shah

2019

Book Chapter: Deep Learning Approaches for Speech Emotion Recognition

Paper Link: https://doi.org/10.1007/978-981-15-1216-2_10/

FELLOWSHIP/AWARDS

- Microsoft Research India Joint Ph.D. Fellowship (2021)
- AAI-20 Student Travel Grant (2020)

TECHNICAL STRENGTHS

Languages Python

Libraries & Framework PyTorch, Scikit-learn, Numpy, Pandas, Matplotlib

TEACHING ASSISTANTSHIPS

Multimedia Computing and Applications, Instructor: Rajiv Ratn Shah

Game Theory, Instructor: Rakesh Chaturvedi

Convex Optimization, Instructor: Rakesh Chaturvedi

COURSEWORK

Convex Optimization, Statistical Machine Learning, Bayesian Machine Learning, Theories of Deep Learning, Independent Study on Topics in Bayesian ML, Markov Decision Processes, Advanced Machine Learning

SELECTED EXTRACURRICULARS

Co-Organizer: Multi-modal Video Understanding in a Noisy Environment, Grand Challenge, ACM Multimedia Asia (MM'Asia), August 2021

Volunteer: EMNLP 2020, ICML 2020

Reviewer: IEEE BigMM 2020 Grand Challenge