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EDUCATION	
INDIAN INSTITUTE OF TECHNOLOGY, DELHI	Delhi, India
PhD Candidate in Computer Science and Engineering (GPA: 9.32/10.0)	2021-Present
Advisor: Manik Varma and Rahul Garg	
• I focus on developing efficient training strategies for deployable Extreme Classification (XC) algorithms.	
HARVARD UNIVERSITY	Cambridge, MA, USA
S.M. (Master of Science), Computational Science and Engineering	2016-2017
 Graduated at the top of my class with GPA 4/4 	
Cross-registered with MASSACHUSETTS INSTITUTE OF TECHNOLOGY(MIT) for Machine Learning	
INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR	Jodhpur, India
Bachelor of Technology, Computer Science and Engineering	2011-2015
 Graduated at the top of my class (150) with GPA 9.95/10 	
Nominated for the best B. Tech project for the final year	
AISSCE (ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION)	Jodhpur, India
Central Board of Secondary Education (CBSE), Delhi Public School, Jodhpur	2010
Scored 95.6% securing position in TOP 10 students in India	
Secondary Examination	India
Rajasthan Board of Secondary Education (RBSE)	2008
 Scored 94.17% securing 11[™] merit position amongst 900,000 students. 	
MICROSOFI RESEARCH INDIA LAB	lup 2021 Drocopt
Senior Research Software Engineer/ Director Intern Program	Juli 2021-Present
Developed end-to-end trained xC algorithm ASTRA, which led to 15x reduction in training time with less th accuracy. Deployed this model in production with significant revenue gains and filed a natent for the same	dii 170 1055 iii
Research Software Engineer II	Feb 2018-lup 2021
Built and-to-and system (BEX) for detecting misconfigurations using correlated change analysis which has h	veen deployed to
100.000 repositories within Microsoft. The model helped detect 5000 misconfigurations in 10 months.	leen deployed to
Developed Test-Selection Models for 22 large scale services within Microsoft that could save 15-30% COGS	
beveloped <u>rest selection models</u> for 22 large scale services within wirelosoft that could save 15 50% cous	
MICROSOFT INDIA DEVELOPMENT CENTER (R&D)	
Software Engineer (Machine Learning) in Bing Ads Team	Jul 2017-Feb 2018
Improved models for click prediction and deployed the improved version to the second largest market for Bing	outside the US.
Software Engineer in System Centre Virtual Machine Manager Team	Jun 2015-Jul 2016
• Implemented allocation of cloud storage for different tenants from the same pool for Hyperconverged Systematics	tem.
• Worked on Windows Storage Replica and Quality of Service, two important features of SCVMM-Storage 20	16.
HARVARD UNIVERSITY	
Teaching Fellow (TF)	Aug 2016-May 2017
Worked as TF for graduate course-Systems Development for Computational Science and undergrad course-Bior	medical Engineering.
MICROSOFI INDIA (R&D) – Internsnip	May 2014 Jul 2014
Software Engineering Intern	Widy 2014-Jul 2014
• Developed Azure Mobile Services Adapter for Biztaik Services along with a demo app.	
ACADEMIC ACHIEVEMENTS	
• REYA (Recognition of Excellence in Young Alumni) in Academics & Research category in 2021 at IIT Jodhpur	
• Finalist for the WomenTech Network Rising Star in STEM of the Year Global Award 2020	
• President's Gold Medal for the best academic performance amongst all engg. streams of the undergraduat	e program at IITJ.
• Proficiency Medal for the best academic performance in Computer Science and Engineering stream at IIT Jo	odhpur

• Academic Excellence Award for the best academic performance for the first three consecutive years in B.Tech.

- *Silver Medal* for securing 11th position in the top 15 out of 900,000 students in secondary examination 2008.
- Best Student of the year 2008 awarded to the student with the best overall performance.
- Brilliant Student Award by Hon'ble Pratibha Patil (Ex. President of India) in the year 2006.

PUBLICATIONS

- Enhancing Tail Performance in Extreme Classifiers by Label Variance Reduction
 Anirudh Buvanesh, Rahul Chand, Jatin Prakash, Bhawna Paliwal, Mudit Dhawan, Neelabh Madan, Deepesh Hada, Vidit Jain, Sonu

 Mehta, Yashoteja Prabhu, Manish Gupta, Ramachandran Ramjee, Manik Varma
 International Conference on Learning Representations (ICLR), 2024
- Deep Encoders with Auxiliary Parameters for Extreme Classification

Kunal Dahiya, Sachin Yadav, Sushant Sondhi, Deepak Saini, **Sonu Mehta**, Jian Jiao, Sumeet Agarwal, Purushottam Kar, Manik Varma

ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2023

- NGAME: Negative Mining-aware Mini-batching for Extreme Classification
 Kunal Dahiya, Nilesh Gupta, Deepak Saini, Akshay Soni, Yajun Wang, Deepesh Hada, Vidit Jain, Bhawna Paliwal, Anshul Mittal,
 Sonu Mehta, Ramachandran Ramjee, Sumeet Agarwal, Purushottam Kar, Manik Varma
 ACM International Conference on Web Search and Data Mining (WSDM), 2023
- Data-driven test selection at scale

Sonu Mehta, Farima Farmahinifarahani, Ranjita Bhagwan, Suraj Guptha, Sina Jafari, Rahul Kumar, Vaibhav Saini, Anirudh Santhiar

European Software Engineering Conference and Symposium on the Foundations of Software Engineering (FSE), 2021

• Learning Patterns in Configuration

Ranjita Bhagwan, **Sonu Mehta**, Arjun Radhakrishna, Sahil Garg International Conference on Automated Software Engineering (**ASE**), 2021

- Rex: Preventing Bugs and Misconfiguration in Large Services Using Correlated Change Analysis
 Sonu Mehta, Ranjita Bhagwan, Rahul Kumar, Chetan Bansal, Chandra Maddila, Balasubramanyan Ashok, Sumit Asthana,
 Christian Bird, Aditya Kumar
 USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2020
- WhoDo: automating reviewer suggestions at scale
 Sumit Asthana, Rahul Kumar, Ranjita Bhagwan, Christian Bird, Chetan Bansal, Chandra Maddila, Sonu Mehta, B Ashok
 European Software Engineering Conference and Symposium on the Foundations of Software Engineering (FSE), 2019
- Assessing the Effectiveness of Syntactic Structure to Learn Code Edit Representations Syed Arbaaz Qureshi, Sonu Mehta, Ranjita Bhagwan, Rahul Kumar arXiV, 2021

PATENTS

- Accurate and Scalable Approximate Nearest Neighbour Search (ANNS)-based Training of Extreme Classifiers US Patent App. 18/733,403, applied on 2024/4/12
- Pattern base configuration verifier US Patent 11,977,606, issued 2024/5/7
- Detecting misconfiguration and/or bug (s) in large service (s) using correlated change analysis US Patent 11,599,354, issued 2023/3/7.

SERVICE