

RESEARCH SCIENTIST

IBM Research, India

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Work Experience_

IBM Research Bangalore, India

RESEARCH SCIENTISTJune 2022 - PresentSENIOR RESEARCH ENGINEERJuly 2019 - Jun 2022RESEARCH ENGINEERApr 2017 - July 2019BLUE SCHOLARJuly 2015 - Apr 2017

Education

Indian Institute of Technology Bombay

Mumbai, India

PHD, COMPUTER SCIENCE

Jan 2021 - June 2025

• Advisors: Prof. Sunita Sarawagi, Prof. Preethi Jyothi (CGPA: 9.0/10.0)

• Thesis: Text-Only Contextualization of Speech Recognition through Retrieval, Adaptation, and LLM Integration

Indian Institute of Technology Bombay

M.Tech, Computer Science

July 2013 - May 2015

Mumbai, India

Arxiv

Interspeech 2024

Interspeech 2023

Dublin, Ireland

Kigali, Rwanda

ICLR 2023

Arxiv 2023

Kos, Greece

EMNLP 2023

Singapore

• Advisors: Prof. Sunita Sarawagi, Prof. Ganesh Ramakrishnan, Prof. Mausam (IIT Delhi)

• Dissertation: Numerical Relation Extraction with Minimal Supervision (CGPA: 9.7/10.0)

Dharmsinh Desai University

Nadiad, India

B.E, COMPUTER SCIENCE

July 2008 - May 2012

- Percentage: 84.79, Ranked $\mathbf{1}^{st}$ in the university comprising of 650 students in that batch.

Publications

Mathematics Isn't Culture-Free: Probing Cultural Gaps via Entity and Scenario Perturbations

Aditya Tomar, Nihar Ranjan Sahoo, **Ashish Mittal**, Rudra Murthy, Pushpak Bhattacharya July 202

Granite-speech: open-source speech-aware LLMs with strong English ASR capabilities

Arxiv

George Saon, Avihu Dekel, Alexander Brooks, Tohru Nagano, **Ashish Mittal** AND OTHERS May 2025

RECAST: Retrieval-Augmented Contextual ASR via Decoder-State Keyword Spotting

ARR May 2025

ASHISH MITTAL, PREETHI JYOTHI, SUNITA SARAWAGI

Under Review

SKIP-SALSA: Skip Synchronous Fusion of ASR LLM Decoders

Interspeech 2025

Ashish Mittal*, Darshan Prabhu*, Preethi Jyothi, Sunita Sarawagi Accepted

INDIC QA BENCHMARK: A Multilingual Benchmark to Evaluate Question Answering

capability of LLMs for Indic Languages

Abhishek Singh, Vishwajeet Kumar, Rudra Murthy, Jaydeep Sen, **Ashish Mittal**, Ganesh Ramakrishnan Albuquerque, United States

Salsa: Speedy ASR-LLM Synchronous Aggregation [Nominated for Best Student Paper]

ASHISH MITTAL*, DARSHAN PRABHU*, PREETHI JYOTHI, SUNITA SARAWAGI

Speech-enriched Memory for Inference-time Adaptation of ASR Models to Word

Dictionaries

Dictionalics

ASHISH MITTAL, PREETHI JYOTHI, SUNITA SARAWAGI, GEORGE SAON, GAKUTO KURATA

Improving RNN-Transducers with Acoustic LOOKAHEAD

VINIT UNNI, **ASHISH MITTAL**, PREETHI JYOTHI, SUNITA SARAWAGI

In-Situ Text-Only Adaptation of Speech Models with Low-Overhead Speech Imputations

Ashish Mittal, Sunita Sarawagi, Preethi Jyothi

Soft Random Sampling: A Theoretical and Empirical Analysis

Xiaodong Cui, **Ashish Mittal**, Songtao Lu, Wei Zhang, George Saon, Brian Kingsbury

Distributed Gradient Matching-based Data Subset Selection for Compute-Efficient and EMNLP (Findings) 2022 **Robust ASR Training** ASHISH MITTAL*, DURGA S*, RISHABH IYER, GANESH RAMAKRISHNAN, PREETHI JYOTHI Abu Dhabi, UAE Adaptive Discounting of Implicit Language Models in RNN-Transducers ICASSP 2022 Vinit Unni*, Shreya Khare*, **Ashish Mittal**, Preethi Jyothi, Sunita Sarawagi Singapore Low Resource ASR: The surprising effectiveness of High Resource Transliteration Interspeech 2021 Shreya Khare*, **Ashish Mittal***, Anuj Diwan*, Samarth Bharadwaj, Preethi Jyothi, Sunita Sarawagi Brno, Czech Republic Multilingual and code-switching ASR challenges for low resource Indian languages Interspeech 2021 Anuj Diwan, **Ashish Mittal**, Shreya Khare, Samarth Bharadwaj and others Brno, Czech Republic **Bootstrapping Chatbot Interfaces to Databases** CODS-COMAD 2021 ASHISH MITTAL, DIPTIKALYAN SAHA, PARAG JAIN, JAYDEEP SEN, MANASA JAMMI, KARTHIK SANKARANARAYANAN Bangalore, India Optimizing Interpretation Generation in Natural Language Query Answering for Real CODS-COMAD 2021 **Time End Users** Jaydeep Sen, Diptikalyan Saha, **Ashish Mittal**, Karthik Sankaranarayanan Banaalore, India Representation Based Meta-Learning For Few-Shot Spoken Intent Recognition Interspeech 2020 ASHISH MITTAL, SAMARTH BHARADWAJ, SHREYA KHARE, SANEEM CHEMMENGATH, KARTHIK SANKARANARAYANAN, BRIAN Shanghai, China KINGSBURY ATHENA++: Natural Language Querying for Complex Nested SQL Queries VLDB 2020 JAYDEEP SEN, CHUAN LEI, ABDUL QUAMAR, FATMA ÖZCAN, VASILIS EFTHYMIOU, AYUSHI DALMIA, GREG STAGER, ASHISH Tokyo, Japan MITTAL, DIPTIKALYAN SAHA, KARTHIK SANKARANARAYANAN **Unified Semantic Parsing with Weak Supervision** ACL 2019 PRIYANKA AGRAWAL, PARAG JAIN, AYUSHI DALMIA, ABHISHEK BANSAL, ASHISH MITTAL, KARTHIK SANKARANARAYANAN Florence, Italy Natural Language Querying of Complex Business Intelligence Queries. ACM SIGMOD 2019 Jaydeep Sen, Fatma Özcan, Abdul Quamar, Greg Stager, **Ashish Mittal**, Manasa Jammi, Chuan Lei, Diptikalyan Amsterdam, The Netherlands SAHA, KARTHIK SANKARANARAYANAN Ontology-Based Natural Language Query Interfaces for Data Exploration IEEE Data Engineering Bulletin, 2018 Chuan Lei, Fatma Özcan, Abdul Quamar, **Ashish Mittal**, Jaydeep Sen, Diptikalyan Saha, Karthik Sankaranarayanan Volume 41, Number 3. Tooling Framework for Instantiating Natural Language Querying System VI DR 2018 Manasa Jammi, Jaydeep Sen, Ashish Mittal, Sagar Verma, Vardaan Pahuja, Rema Ananthanarayanan, Pranay Rio De Janeiro, Brazil LOHIA, HIMA KARANAM, DIPTIKALYAN SAHA, KARTHIK SANKARANARAYANAN Functional Partitioning of Ontologies for Natural Language Query Completion in IJCAI 2018 **Question Answering Systems** Jaydeep Sen, **Ashish Mittal**, Diptikalyan Saha, Karthik Sankaranarayanan Stockholm, Sweden An Ontology based Dialog Interface to Database ACM SIGMOD 2018 ASHISH MITTAL, JAYDEEP SEN, DIPTIKALYAN SAHA, KARTHIK SANKARANARAYANAN Houston, United States Creation and Interaction with Large-scale Domain-Specific Knowledge Bases VLDB 2017 Laura Chiticariu, Ashish Mittal, Fatma Özcan, Abdul Quamar, Diptikalyan Saha, Karthik S., Jaydeep Sen and Munich, Germany OTHERS ATHENA: an ontology-driven system for natural language querying over relational data VI DR 2016 DIPTIKALYAN SAHA, AVRILIA FLORATOU, KARTHIK SANKARANARAYANAN, UMAR FAROOQ MINHAS, ASHISH R. MITTAL, AND New Delhi, India FATMA ÖZCAN. **Numerical Relation Extraction with Minimal Supervision** AAAI 2016 Phoenix, United States

Aman Madaan*, Ashish Mittal*, Mausam, Ganesh Ramakrishnan, and Sunita Sarawagi

Patents

Ontology driven contextual automated speech recognition

ASHISH MITTAL, SHREYA KHARE, SAMARTH BHARADWAJ

Artificial intelligence factsheet generation for speech recognition

SHREYA KHARE, ASHISH MITTAL, SANEEM CHEMMENGATH, SAMARTH BHARADWAJ, KARTHIK SANKARANARAYANAN

US12315496B2

US20230419950A1

2022

resource	ted domain-specific constrained decoding from speech inputs to structured es	US20230215427A1
	ttal, Samarth Bharadwaj, Shreya Khare, Karthik Sankaranarayanan	2022
	earning for Natural Language Question Answering	US11971886B2
	en, Karthik Sankaranarayanan, Ashish Mittal , query execution using user-provided definition	2021 US11294907B2
	EN, ASHISH MITTAL , DIPTIKALYAN SAHA, KARTHIK SANKARANARAYANAN	2020
	ent conversational agent framework	US12086561B2
_	TTAL, DIPTIKALYAN SAHA, PRIYANKA AGRAWAL, MANASA JAMMI	2019
Natural	Language interface databases	US11200222B2
	en, Diptikalyan Saha, Karthik Sankaranarayanan, Ashish Mittal , Manasa Jammi	2019
Automa	ted generation of test cases for analyzing natural language interfaces to database	UC10077104D2
systems		US10977164B2
DIPTIKALYA	n Saha, Jaydeep Sen, Manasa Jammi, Ashish Mittal	2018
Ontolog	y-based automatic bootstrapping of state based dialog systems	US10839160B2
JAYDEEP SE	en, Parag Jain, Diptikalyan Saha, Ashish Mittal	2018
Ontolog	y refinement based on query inputs	US10810246B2
Аѕніѕн Мі	ttal, Diptikalyan Saha, Karthik Sankaranarayanan, Jaydeep Sen	2017
Ontolog	y-based query suggestion using eye tracking	US20190087486A1
Ashish Mi	ttal, Diptikalyan Saha, Karthik Sankaranarayanan, Jaydeep Sen	2017
Interact	ive dialog in natural language using an ontology	US10621166B2
	ttal, Diptikalyan Saha, Karthik Sankaranarayanan, Jaydeep Sen	2017
	ing structured languages to natural language using domain-specific ontology	US20180210879A1
	TTAL, DIPTIKALYAN SAHA, KARTHIK SANKARANARAYANAN	2017
	ng notifications in video streams to control video playback	US11208226B2
VIJAY EKAM	baram, Ashish Mittal , Ruhi Sharma Mittal, Y Shrinivasan	2016
Talks	& Tutorials	
	& Tutorials on understanding and mitigating the hallucinations in NLP and Speech	Bangalore, India
	on understanding and mitigating the hallucinations in NLP and Speech	Bangalore, India 2024
Tutorial	on understanding and mitigating the hallucinations in NLP and Speech	•
Tutorial Cods-Com Full Day	on understanding and mitigating the hallucinations in NLP and Speech	2024
Tutorial Cods-Com Full Day	on understanding and mitigating the hallucinations in NLP and Speech Morkshop on End-to-End Speech Recognition	2024 Online
Tutorial Cods-Com Full Day Indira Gan Invited	on understanding and mitigating the hallucinations in NLP and Speech Workshop on End-to-End Speech Recognition IDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN	2024 Online 2020 & 2021
Tutorial Cods-Com Full Day Indira Gan Invited	on understanding and mitigating the hallucinations in NLP and Speech Workshop on End-to-End Speech Recognition IDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Talk on natural language querying over databases	2024 Online 2020 & 2021 IISc Bangalore
Tutorial Cods-Com Full Day Indira Gan Invited IBM Resea Invited	on understanding and mitigating the hallucinations in NLP and Speech Workshop on End-to-End Speech Recognition Idhi Delhi Technical University for Women Talk on natural language querying over databases RCH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING	2024 Online 2020 & 2021 IISc Bangalore 2018
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Tutorial CODS-COM Full Day Indira Gan Invited IBM RESEA Invited JAPAN ADVA HONG	On understanding and mitigating the hallucinations in NLP and Speech Workshop on End-to-End Speech Recognition IDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Talk on natural language querying over databases RCH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING Talk on natural language querying over databases ANCED INSTITUTE OF SCIENCE AND TECHNOLOGY OTS & Awards Manager's choice award, Won the award 6 times since joining IBM Research. The award is given for taking research initiatives, client deliveries and leadership.	2024 Online 2020 & 2021 IISc Bangalore 2018 Bangalore, India 2017
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Tutorial CODS-COM Full Day INDIRA GAN Invited IBM RESEA Invited JAPAN ADV. Hond 2024	On understanding and mitigating the hallucinations in NLP and Speech Workshop on End-to-End Speech Recognition IDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Talk on natural language querying over databases RCH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING Talk on natural language querying over databases ANCED INSTITUTE OF SCIENCE AND TECHNOLOGY OTS & AWards Manager's choice award, Won the award 6 times since joining IBM Research. The award is given for taking research initiatives, client deliveries and leadership. Cash Award, Recipient of IBM's Council for Innovation Leadership for my work with IBM's patent process as part of the Invention Development Team. Outstanding Technical Achievement Award, Recipient of IBM's Outstanding Technical Achievement Award for my work on the COVID-Assist and connect platform. Performance Award, Recipient of IBM's Performance Award for my ongoing work in adding indic languages to IBM's NLU product. This is an individual award which is given to select researchers globally.	2024 Online 2020 & 2021 IISc Bangalore 2018 Bangalore, India 2017 IBM Research
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Tutorial Cods-Com Full Day Indira Gan Invited IBM Resea Invited Japan Adv. Hond 2024 2022 2022	On understanding and mitigating the hallucinations in NLP and Speech Workshop on End-to-End Speech Recognition IDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Talk on natural language querying over databases RCH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING Talk on natural language querying over databases RANCED INSTITUTE OF SCIENCE AND TECHNOLOGY OFS & AWARDS Manager's choice award, Won the award 6 times since joining IBM Research. The award is given for taking research initiatives, client deliveries and leadership. Cash Award, Recipient of IBM's Council for Innovation Leadership for my work with IBM's patent process as part of the Invention Development Team. Outstanding Technical Achievement Award, Recipient of IBM's Outstanding Technical Achievement Award for my work on the COVID-Assist and connect platform. Performance Award, Recipient of IBM's Performance Award for my ongoing work in adding indic languages to IBM's NLU product. This is an individual award which is given to select researchers globally. Research Division Award, Recipient of IBM Research Division Award for my work in Natural language querying technology for Aditya Birla Retail (ABFRL) client win.	2024 Online 2020 & 2021 IISc Bangalore 2018 Bangalore, India 2017 IBM Research IBM Research IBM Research
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Tutorial Cods-Com Full Day Indira Gan Invited IBM Resea Invited Japan Adv. Hond 2024 2022 2022 2020 2019	Workshop on End-to-End Speech Recognition DICHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Talk on natural language querying over databases RICH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING Talk on natural language querying over databases RICH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING Talk on natural language querying over databases ANCED INSTITUTE OF SCIENCE AND TECHNOLOGY OFS & AWards Manager's choice award, Won the award 6 times since joining IBM Research. The award is given for taking research initiatives, client deliveries and leadership. Cash Award, Recipient of IBM's Council for Innovation Leadership for my work with IBM's patent process as part of the Invention Development Team. Outstanding Technical Achievement Award, Recipient of IBM's Outstanding Technical Achievement Award for my work on the COVID-Assist and connect platform. Performance Award, Recipient of IBM's Performance Award for my ongoing work in adding indic languages to IBM's NLU product. This is an individual award which is given to select researchers globally. Research Division Award, Recipient of IBM Research Division Award for my work in Natural language querying technology for Aditya Birla Retail (ABFRL) client win. Eminence and Excellence Award, Recipient of IBM Research's Eminence and Excellence cash award on demonstrating exemplary teamwork towards the NLQ for Retail Accomplishment.	2024 Online 2020 & 2021 IISc Bangalore 2018 Bangalore, India 2017 IBM Research IBM Research IBM Research IBM Research IBM Research
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Tutorial Cods-Com Full Day Indira Gan Invited IBM Resea Invited Japan Adv. Hond 2024 2022 2022 2020 2019	Workshop on End-to-End Speech Recognition DICHI DELHI TECHNICAL UNIVERSITY FOR WOMEN Talk on natural language querying over databases RICH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING Talk on natural language querying over databases RICH-IISC WORKSHOP ON KNOWLEDGE AND LEARNING Talk on natural language querying over databases ANCED INSTITUTE OF SCIENCE AND TECHNOLOGY OFS & AWards Manager's choice award, Won the award 6 times since joining IBM Research. The award is given for taking research initiatives, client deliveries and leadership. Cash Award, Recipient of IBM's Council for Innovation Leadership for my work with IBM's patent process as part of the Invention Development Team. Outstanding Technical Achievement Award, Recipient of IBM's Outstanding Technical Achievement Award for my work on the COVID-Assist and connect platform. Performance Award, Recipient of IBM's Performance Award for my ongoing work in adding indic languages to IBM's NLU product. This is an individual award which is given to select researchers globally. Research Division Award, Recipient of IBM Research Division Award for my work in Natural language querying technology for Aditya Birla Retail (ABFRL) client win. Eminence and Excellence Award, Recipient of IBM Research's Eminence and Excellence cash award on demonstrating exemplary teamwork towards the NLQ for Retail Accomplishment.	2024 Online 2020 & 2021 IISc Bangalore 2018 Bangalore, India 2017 IBM Research IBM Research IBM Research IBM Research IBM Research

2017	Distinguished Paper Award , Recipient of IBM India Research Lab's Distinguish Paper Award for our paper published in VLDB 2016.	IBM Research	
2014	Winner , Won the AngelHack Hackathon held in Mumbai out of 38 teams. Selected for the finals and accepted at HACKcelerator program with office space, mentorship and \$5000 worth of Amazon AWS credits (declined).	IIT Bombay	
MISCELLANEOUS			
2015	Rank 2, Obtained Department Rank 2 out of 120 students in M.Tech CSE at IIT Bombay.	IIT Bombay	
2013	All India Rank 11, Obtained All India Rank 11 out of 2,24,160 students in the entrance exam for post graduate admissions(GATE) in India.	India	
2012	Certificate of Excellence, Top Ranker , Awarded Certificate of Excellence, Top Ranker 2012 from Nasscom for being a top ranker in Department of Computer Engineering at Dharmsinh Desai University.	Nadiad, India	
2010	Eklavya Scholarship of Excellence , Awarded Eklavya Scholarship of Excellence for first position in the Department of Computer Engineering at Dharmsinh Desai University	Nadiad, India	

Academic Services _____

2025	Program Committee, Interspeech, ARR, Neurips, ICML, ICLR, COLM
2024	Program Committee , Interspeech, ARR, AAAI, Neurips, ICML, ICLR, COLM, ICASSP
2023	Program Committee, ICLR, ICASSP, ACL, Neurips, ICML, CODS-Comad
2023	Program Committee, ICLR, ICASSP, ACL, Neurips
2022	Program Committee, EMNLP, AI-ML systems, Neurips, ICML, ICASSP, AAAI, CODS-Comad
2021	Program Committee, EMNLP, ICLR, NAACL, AAAI (among top 25% members), CODS-Comad
2020	Program Committee, AAAI (among top 25% members), CODS-Comad
2019	Program Committee, Industry Track, CODS-Comad