

Mohammed Safi Ur Rahman Khan

Google PhD Fellow, IIT Madras | AI4Bharat

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 619, New Academic Complex-2, IIT Madras, TN, India

Education

Present	Indian Institute of Technology (IIT), Madras	Chennai, India
Jul 2024	Ph.D, Wadhwan School of Data Science and AI Advisor : Mitesh M. Khapra	
Jul 2023	Indian Institute of Technology (IIT), Madras	Chennai, India
Aug 2021	M.Tech, Computer Science & Engineering CGPA: 9.75/10 Advisors : Pratyush Kumar, Mitesh M. Khapra	
Jul 2021	Osmania University	Hyderabad, India
Jun 2017	B.E, Computer Science & Engineering CGPA: 8.94/10	

Experience

Present	AI4Bharat, IIT Madras []	Chennai, India
Jul 2024	<i>PhD Researcher</i> Working on building and evaluating Multilingual Large Language Models (LLMs) focusing on Indian languages. Recipient of the Google PhD Fellowship 2025.	
Jul 2023	<i>AI Resident</i> Worked on building large-scale data infrastructure to create, curate, and clean Indic Language data for training Large Language Models (LLMs).	
Jul 2022	<i>Graduate Student Researcher</i> Worked on narrow-domain adaptation of Automatic Speech Recognition (ASR) systems using Class-Based Language Models.	
Jul 2022	Predactica []	Remote
May 2022	Data Science Intern Worked on Time Series Forecasting. Added the Time-Series specific data preparation, cleaning, and modeling functionality in the existing ML-Studio product.	
Apr 2021	Cisco Systems []	Bangalore, India
Jan 2021	Worked on integrating Thousand Eyes network monitoring tool in the existing UCM Cloud.	

Publications

C=Conference, P=Preprint, *=Equal Contribution

- [C.8] **FairI Tales: Evaluation of Fairness in Indian Contexts with a Focus on Bias and Stereotypes** [] [Code]
Janki Nawale*, Mohammed Safi Ur Rahman Khan*, Janani D, Mansi Gupta, Danish Pruthi and Mitesh M. Khapra
63rd Annual Meeting of the Association for Computational Linguistics, Vienna, Austria [ACL 2025]
- [C.7] **Can Vision-Language Models Evaluate Handwritten Math?** [img alt="GitHub icon" data-bbox="581 761 601 773"/>] [Code]
Oikantik Nath, Hanani Bathina, Mohammed Safi Ur Rahman Khan and Mitesh M. Khapra
63rd Annual Meeting of the Association for Computational Linguistics, Vienna, Austria [ACL 2025]
- [C.6] **Towards Building Large Scale Datasets and State-of-the-Art Automatic Speech Translation Systems for 14 Indian Languages** [img alt="GitHub icon" data-bbox="341 825 361 837"/>] [Code]
Ashwin Sankar*, Sparsh Jain*, Nikhil Narasimhan, Devilal Choudhary, Dhairyya Suman, Mohammed Safi Ur Rahman Khan, Anoop Kunchukuttan, Mitesh M. Khapra and Raj Dabre
63rd Annual Meeting of the Association for Computational Linguistics, Vienna, Austria [ACL 2025]

- [C.5] **Cross-Lingual Auto Evaluation for Assessing Multilingual LLMs** [🔗] [Code]
Sumanth Doddapaneni*, Mohammed Safi Ur Rahman Khan*, Dilip Venkatesh, Raj Dabre, Anoop Kunchukuttan, and Mitesh M. Khapra
63rd Annual Meeting of the Association for Computational Linguistics, Vienna, Austria [ACL 2025]
- [C.4] **Pralekha: An Indic Document Alignment Evaluation Benchmark** [🔗] [Code]
Sanjay Suryanarayanan, Haiyue Song, Mohammed Safi Ur Rahman Khan, Anoop Kunchukuttan, and Raj Dabre
14th International Joint Conference on Natural Language Processing and the 4th Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics [IJCNLP-AACL 2025]
- [C.3] **MILU: A Multi-task Indic Language Understanding Benchmark** [🔗] [Data]
Sshubam Verma, Mohammed Safi Ur Rahman Khan, Vishwajeet Kumar, Rudra Murthy and Jaydeep Sen
2025 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics [NAACL 2025]
- [C.2] **Finding Blind Spots in Evaluator LLMs with Interpretable Checklists** [🔗] [Code]
Sumanth Doddapaneni*, Mohammed Safi Ur Rahman Khan*, Sshubam Verma and Mitesh M. Khapra
The 2024 Conference on Empirical Methods in Natural Language Processing, Miami, Florida
🥇 Outstanding Paper [EMNLP 2024]
- [C.1] **IndicLLMSuite: A Blueprint for Creating Pre-training and Fine-Tuning Datasets for Indian Languages** [🔗] [Code]
Mohammed Safi Ur Rahman Khan*, Priyam Mehta*, Ananth Sankar, Umashankar Kumaravelan, Sumanth Doddapaneni, Suriyaprasaad G, Varun Balan G, Sparsh Jain, Anoop Kunchukuttan, Pratyush Kumar, Raj Dabre, and Mitesh M. Khapra
62nd Annual Meeting of the Association for Computational Linguistics, Bangkok, Thailand
🥇 Outstanding Paper [ACL 2024]
- [P.1] **Airavata: Introducing Hindi Instruction-tuned LLM** [🔗] [Code]
Jay Gala, Thanmay Jayakumar, Jaavid Aktar Husain, Aswanth Kumar M, Mohammed Safi Ur Rahman Khan, Diptesh Kanodia, Ratish Puduppully, Mitesh M. Khapra, Raj Dabre, Rudra Murthy, and Anoop Kunchukuttan

Projects

- Narrow Domain Adaptation of Automatic Speech Recognition (ASR) Systems** [🔗] M.Tech Thesis
- › Worked on adapting existing general purpose CTC-based Automatic Speech Recognition (ASR) systems on narrow domains like Finance, Medical, E-Commerce, etc.
 - › Explored inference-time approaches like constrained decoding using Class-Based Language Models.

IndicPunct - Inverse Text Normalization for Indic Languages [Code]

- › Worked on enhancing Weighted Finite State Transducer (WFST) based Inverse Text Normalization (ITN) System for 12 Indic Languages.
- › Deployed as a post-processor at various speech systems due to its capability of handling various colloquial forms efficiently.

Indic-numtowords - Lightweight Text Normalization for Indic Languages [Code]

- › Built a simple, lightweight Python package for text normalization for 13 Indic Languages.

Awards and Achievements

Google PhD Fellowship [🔗] Received the Google PhD Fellowship 2025 for Natural Language Processing.

Outstanding Paper Awards Won the Outstanding paper awards in ACL-2024 and EMNLP-2024.

Google Travel Grant, 2024 [🔗] For attending EMNLP 2024 held in Miami, Florida.

Microsoft Research Travel Grant, 2024 [🔗] For attending ACL 2024 held in Bangkok, Thailand.

IIT Madras STAR TA Award Star Teaching Assistant award for the year 2023.

GATE CS& IT 2024 Secured All India Rank 113 among 100K candidates.

Cassini Scientist for a Day 2013 National Winner in the Cassini Scientist for a Day 2013 competition organized by NASA.