Prachi Jain

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Postdoctoral Researcher
Indian Institute of Technology, Delhi

EDUCATION

Ph.D. (Computer Science and Engineering) — July 2014 – October 2022
Area: Natural Language Processing, Deep Learning
Advisor: Dr Mausam, Professor IIT Delhi
Dr Soumen Chakrabarti, Professor IIT Bombay
Indian Institute of Technology, Delhi
CGPA : 8.7/10

M.Tech. (Computer Science and Engineering) — August 2011 - December 2013
Specialization: Information Security
Advisor: Dr Ponnurangam Kumaraguru, Assistant Professor IIIT Delhi
Indraprastha Institute of Information Technology, Delhi
CGPA : 9.75/10

B.Tech (Hons.) (Computer Science and Engineering) — July 2007 - August 2011
Maharashi Dayanand University, Haryana
Cumulative Aggregate : 80.1%

EXPERIENCE

Microsoft Research, Bangalore: Post-doctoral Researcher — October 2022 – Present
- Host: Dr Sunayana Sitaram
- Ethical AI and Fairness in Large Language Models. Benchmarking multi-lingual capabilities of LLM.

Facebook, London: Research Intern — August 2018 – October 2018
- Guide: Dr Daniel Bennett.
- Internationalized models for malicious account detection.

Alcatel-Lucent (Bell Labs), Dublin: Research Intern — June 2013 – July 2013
- Guide: Dr Alessandra Sala, Research Scientist Alcatel-Lucent Dublin.
- Handling and Analyzing huge Hive datasets from a leading Telecom Provider.

University Of Southern California, Los Angeles: Research Intern — May 2012 – July 2012
- Guide: Dr Kristina Lerman, Project Leader ISI USC.

IIT Delhi: Research Associate — January 2014 – April 2014
- Guide: Prof Mausam, Associate Professor IIT Delhi.

IIIT Delhi: Research Assistant — January 2013 – May 2013
- Guide: Dr Ponnurangam Kumaraguru, Assistant Professor IIIT Delhi.

Teaching Assistant — August 2011 – 2019
- IIT Delhi: Machine Learning, Artificial Intelligence, Learning Probabilistic Graphical Model, Natural Language Processing (basic and advanced level)
- IIIT Delhi: Mobile Computing, Computer Networks, Digital Electronics.

PreCog Group at IIIT Delhi: Student Researcher — January 2012 – December 2013

PUBLICATIONS

- Ashutosh Sathe, **Prachi Jain**, and Sunayana Sitaram. A Unified Framework and Dataset for Assessing Gender Bias in Vision-Language Models. arXiv (2024).

- Sanchit Ahuja, Divyanshu Aggarwal, Varun Gumma, Ishaan Watts, Ashutosh Sathe, Millicent Ochieng, Rishav Hada, **Prachi Jain** et al. MEGAVERSE: benchmarking large language models across languages, modalities, models and tasks. NAACL 2024.

- **Prachi Jain**, Ashutosh Sathe, Varun Gumma, Kabir Ahuja, and Sunayana Sitaram. MAFIA: Multi-Adapter Fused Inclusive LanguAge Models. EACL 2024.

- Kabir Ahuja, Harshita Diddee, Rishav Hada, Millicent Ochieng, Krithika Ramesh, **Prachi Jain**, Akshay Nambi et al. MEGA: Multilingual evaluation of generative AI. Proceedings of EMNLP 2023.

- Soumen Chakrabarti, Harkanwar Singh, Shubham Lohiya, **Prachi Jain**, Mausam. Joint Completion and Alignment of Multilingual Knowledge Graphs. EMNLP 2022.

- Harkanwar Singh, Soumen Chakrabarti, **Prachi Jain**, Sharod Roy Choudhury, Mausam. Multilingual Knowledge Graph Completion With Joint Relation and Entity Alignment. Automated Knowledge Base Construction (AKBC). Online. October 2021.

- **Prachi Jain**, Sushant Rathi, Mausam, Soumen Chakrabarti. Knowledge Base Completion: Baseline strikes back (Again). arXiv (2020).

- **Prachi Jain**, Sushant Rathi, Mausam, Soumen Chakrabarti. Temporal Knowledge Base Completion: New Algorithms and Evaluation Protocols. Proceedings of EMNLP 2020.(Acceptance Rate – 24%)

- **Prachi Jain**, Pankaj Kumar, Mausam, Soumen Chakrabarti. Type-Sensitive Knowledge Base Inference Without Explicit Type Supervision. Proceedings of ACL. 2018. (Acceptance Rate – 24%)

- **Prachi Jain**, Shikhar Murty, Mausam, Soumen Chakrabarti. Mitigating the Effect of Out-of-Vocabulary Entity Pairs in Matrix Factorization for KB Inference. Proceedings of IJCAI. 2018. (Acceptance Rate: 20%)

- **Prachi Jain**, Mausam. Knowledge Guided Linguistic Rewrites for Inference Rule Verification. Proceedings of NAACL-HLT. 2016. (Acceptance rate – 29%)

- **Prachi Jain**. Call Me MayBe: Understanding Nature and Risks of Sharing Mobile Numbers on Online Social Networks. IIIT Delhi Master's thesis, 2013.

- **Prachi Jain**, Paridhi Jain, Ponnurangam Kumaraguru. Call Me MayBe: Understanding Nature and Risks of Sharing Mobile Numbers on Online Social Networks. Proceedings of the first ACM conference on Online social networks. ACM, 2013.(Acceptance rate – 15.9%)

- Kristina Lerman, **Prachi Jain**, Rumi Ghosh, Jeon-Hyung Kang, Ponnurangam Kumaraguru. Limited Attention and Centrality in Social Networks. Social Intelligence and Technology (SOCIETY), 2013 International Conference on. IEEE, 2013.

COMMUNITY SERVICE

- Active Reviewer for EMNLP, ACL, NeurIPS, AAAI, IJCAI, AKBC, ICML, ICLR.

AWARDS
- Received SAP Grant for attending the 7th Heidelberg Laureate Forum (2019), Heidelberg, Germany.
- Received student travel grant for attending the Deep Learning and Reinforcement Learning School (2019), Edmonton, Canada.
- Received Google Research travel grant and ACL Student travel grant for attending ACL 2018, Melbourne, Australia.
- Received Microsoft Research travel grant and IJCAI Student travel grant for attending IJCAI 2018, Sweden.
- Received Microsoft Research travel grant and Xerox Research travel grant for attending NAACL 2016, San Diego.
- Awarded Tata Consultancy Services PhD Fellowship for duration of 4 years from 2016.
- Received Google grant for attending the Lisbon Machine Learning School (LxMLS 2015), Portugal.
- Received *best project award* in Graduate course on Natural Language Processing (NLP) at IIT Delhi. Project name – TweetIE: Extracting Relations from Twitter.
- Received ACM COSN Student travel grant to attend COSN 2013, Boston.
- Selected for Lisbon Machine Learning School (LxMLS 2015), Portugal.
- Selected for IBM Winter School 2013.
- Selected for the prestigious Viterbi India Research program 2012, to do funded research internship at USC, Los Angeles, CA.
- Full tuition fee waiver for Masters studies at IIIT Delhi (2011)
- Scholarship for securing 3rd position in B.Tech program.

TECHNICAL SKILLS

Languages & Tools: Python, machine learning tools (pytorch, scikit-learn), Git

RELEVANT COURSE WORK
- Advance Natural Language Processing *(IIT Delhi)*
- Natural Language Processing *(IIT Delhi)*
- Probabilistic Graphical Models *(IIT Delhi)*
- Special Topics in Numerical Algorithm *(IIT Delhi)*
- Machine Learning *(IIT Delhi)*
- Information Retrieval *(IIIT Delhi)*

REFERENCES
- Dr. Sunayana Sitaram, *Microsoft Research, India*
- Prof. Mausam, *(IIT Delhi)*
- Prof. Soumen Chakrabarti *(IIT Bombay)*
- Prof. Ponnurangam Kumaraguru *(IIIT Hyderabad)*