

## Education

**University of Edinburgh** Sept 2019 - Current  
CDT-NLP PhD, Natural Language Processing, Advisor: [Prof. Mirella Lapata](#)  
Funded by Huawei and UKRI.

**Indian Institute of Technology Hyderabad, India** July 2013 - June 2015  
M.Tech, Computer Science & Engg, Advisor: [Prof. Vineeth N Balasubramanian](#)  
CGPA: 8.92/10  
**Thesis:** Metric Learning for Clustering in Streaming Large-Scale Data - [link](#)  
Collaborated with [Dr. TVS Udaya Bhaskar](#) (INCOIS, India) on Ocean Biome Classification  
Awarded A+ (highest possible) for research thesis

**Indian Institute of Technology Kharagpur, India** July 2012 - June 2013  
M.Tech, Multimedia Information Processing  
CGPA: 8.1/10  
Completed one year coursework.

**Jabalpur Engineering College, India** July 2008 - June 2012  
B.E., Computer Science & Engg  
CGPA: 7.5/10

## Industry Experience

**Google DeepMind** July 2023 - Nov 2023  
Student Research Intern

**IBM Research** Feb 2018 - Sept 2019  
Research Engineer

**IBM Research** Aug 2016 - Feb 2018  
Research Software Engineer (FTH)

**Amazon** July 2015 - Aug 2016  
Software Development Engineer

## Teaching Experience

**Tutor, University of Edinburgh** Jan 2021 - Apr 2021  
Natural Language Understanding, Generation, and Machine Translation

**Teaching Assistant, IIT Hyderabad** July 2013 - June 2015  
Numerical Linear Algebra,  
Database Management Systems,  
Advanced Compiler Design

## Tutorial

- [Storytelling from Structured Data and Knowledge Graphs : An NLG Perspective](#)  
Presented at the Annual Meeting of the Association for Computational Linguistics (ACL), 2019

## Publications

### Journal

- [Jain, P., Lapata, M.](#)  
[Memory-Based Semantic Parsing](#) - (Transactions of the Association for Computational Linguistics 2021)
- [Laha, A.\\*](#), [Jain, P.\\*](#), [Mishra, A.\\*](#), [Sankaranarayanan, K.](#)  
[Scalable Micro-planned Generation of Discourse from Structured Data](#) - (Computational Linguistics Journal 2019)  
[VERBALIZING REAL-TIME MATCH INSIGHTS AT THE US OPEN.](#) [[US Open Article](#)] [[Times of India](#)] [[Digital Creed](#)]

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\* equal contribution

## Conference Proceedings

- Jain, P., Marzoca, A., Piccinno, F  
*Structsum Generation for Faster Text Comprehension* (ACL 2024)
- Jain, P., Lapata, M.,  
*Conversational Semantic Parsing using Dynamic Context Graphs* (EMNLP 2023)
- Puduppully, R., Jain, P., Chen, N., Steedman, M.,  
*Multi-Document Summarization with Centroid-Based Pretraining* (ACL 2023)
- Perez-Beltrachini, L., Jain, P., Monti, E., Lapata, M.,  
*Semantic Parsing for Conversational Question Answering over Knowledge Graphs* (EACL 2023)
- Mittal, A., Saha, D., Jain, P., Sen, J., Jammi., M.,  
*Bootstrapping Chatbot Interfaces to Databases Overnight* (CODS-COMAD 2021)
- Jain, P., Mishra, A., Azad, A.P. and Sankaranarayanan, K.  
*Unsupervised Controllable Text Formalization* (AAAI 2019)
- Surya, S., Mishra, A., Laha, A., Jain, P., Sankaranarayanan, K.  
*Unsupervised Neural Text Simplification* - (ACL 2019)
- Agrawal, P., Jain, P., Dalmiya, A., Mittal, A.  
*Unified Semantic Parsing with Weak Supervision* (ACL 2019)
- Jain, P., Laha, A., Sankaranarayanan, K., Nema, P., Khapra, M.M. and Shetty, S.,  
*A Mixed Hierarchical Attention based Encoder-Decoder Approach for Standard Table Summarization* (NAACL-HLT 2018, Short Paper)
- Nema, P.\*, Jain, P.\*, Shetty, S., Laha, A., Sankaranarayanan, K. and Khapra, M.M.,  
*Generating Descriptions from Structured Data Using a Bifocal Attention Mechanism and Gated Orthogonalization* (NAACL-HLT 2018)

## Workshop / Demo/ Preprint

- Jain, P., Lapata, M.,  
*Integrating Large Language Models with Graph-based Reasoning for Conversational Question Answering* (Under Review 2024)
- Jain, P., Agrawal, P.  
Unified Semantic Parsing with Weak Supervision (EurNLP 2019)
- Jain, P., Agrawal, P., Mishra, A., Sukhwani, M., Laha, A. and Sankaranarayanan, K.,  
*Story Generation from Sequence of Independent Short Descriptions* (SIGKDD Workshop ML4Creativity, 2017)
- Bharadwaj, S. *et al.* [and others, including Jain, P.]  
*Creation and Interaction with Large-scale Domain-Specific Knowledge Bases* (VLDB 2017, Demonstrations Track)
- Jain, P., Balasubramanian, V.N.  
*Online Active Metric Learning for Clustering* (XRCI OPEN 2016)
- Jain, P.  
*Unsupervised Metric Learning Using Low Dimensional Embedding* (Preprint)
- Jain, P.  
*Metric Learning Tutorial* (Preprint)

## Selected Patents

- Mittal, A., Jain, P., Saha, D., Sen, J.  
*Ontology-Based Automatic Bootstrapping of State-Based Dialog Systems* - US Patent App. US20190228068A1
- Khare, S., Jain, P., Dechu, S., Mani, S., Tamilselvam, S.G  
*Enabling Tactile Senses in Digital Shopping* US Patent App. US20190163272A1
- Jain, P., Azad, A.P Mishra, A., Sankaranarayanan, K.  
*Unsupervised Tunable Stylized Text Transformation* - US Patent App. US20200034432A1
- Jain, P., Laha, A., Mishra, A., Sankaranarayanan, K.  
*Generation of Variable Natural Language Descriptions From Structured Data* US Patent App. US20200073944A1
- Sankaran, A., Laha, Lohia, P., Jain, P., Shrivastava, D., Agrawal, P.  
*Cognitive Assistant for Co-Generating Creative Content* - US Patent Application No. US20200134089A1
- Laha, A., Ekambaram, V., Jain, P., Shrivastava, D.  
*Displaying dynamic content on multiple devices* - US Patent Application No. US10664217B1
- Chemmengath, S., Jain, P., Laha, A., Krishnan, A.  
Script modification - US Patent Application No. US20200125638A1
- Jain, P., Laha, A., Mishra, A., Sankaranarayanan, K.  
*Structured Article Generation* - US Patent Application No. US11194816B2

## Talks

- Structsum Generation using LLMs - IIT Hyderabad, 2024
- Foster Talk at Jabalpur Engineering College, 2023
- Conversational Semantic Parsing - Online International. Conference. On. Advances in Physical, Mathematical and Computational Sciences, India - 2022
- Introduction to Machine Learning - Christ University Bangalore, 2018
- Metric Learning for Clustering in Streaming Large-Scale Data - IBM Bangalore, 2016
- Introduction to PageRank, IIT Hyderabad, 2015

## Awards

- Travel Award by Google to present our work at ACL 2024
- Travel Award by Facebook AI Research to present our work at EurNLP 2019
- IBM Second Invention Plateau Award - 2019
- IBM First Invention Plateau Award - 2019
- Equity Award for *outstanding achievement* in research and development. - 2018  
(An individual award selected globally every year by the office of CEO of IBM.)
- IBM Research First Patent Award - 2018
- Certificate of Appreciation from the Director of IBM Research India for my Contribution to Natural Language Generation Research in 2018
- Travel Grant by Xerox Research for attending XRCI Open, Bangalore - 2016
- Finalist Amazon Idea hackathon, Hyderabad 2016
- Travel Grant for attending the Fifth User Interaction Workshop at INCOIS, Hyderabad - 2015
- Ministry of Human Resource Development Scholarship by Government of India, 2013 - 2015
- Ministry of Human Resource Development Scholarship by Government of India, 2012

## Service

- Reviewer for COLM 2024
- I server regularly as a reviewer for ACL, EMNLP, NAACL. And have served in past for SIGKDD, Cods-Comad.
- Founding team member of TEDxIITHyderabad, 2016
- Local coordinator for i.school workshop University of Tokyo, at IIT Hyderabad, 2015
- Student placement representative CSE Department IIT Hyderabad, 2015
- Core member of organizing team Aureoleâ€™10 Engineering Techfest, 2010

## Mentorship

- Akash Kumar, Software Engineering intern at IBM (next PhD student at UCSD)  
Project: Tabular Data Summarization
- Aman Sinha, Software Engineering intern at IBM (next Research Assistant at IECL Laboratory, University of Lorraine)  
Project: Scheduled Multi-Task Learning for Semantic Parsing

## Relevant Coursework

- **PhD, Edinburgh** - Pragmatics, Controversies in the Data Society, Accelerated Natural Language Processing, Machine Learning and Pattern Recognition
- **M.Tech, IITH** - Hadoop, Advanced Algorithms and Data Structures, Mathematics for Computing, Systems Security

## Arts Education

- Diploma (VID I) Violin(Indian Classical Music) from **Raja Mansingh Tomar Music & Arts University, India.**
- Green Belt in Karate from Jabalpur Amateur Karate do association affiliated to **Nepal Karate Do Federation.**

## Training and Certifications

- IBM Certified Academic Associate, -DB2 9 Database and Application Fundamentals (ID: PR1587378)
- IBM Certified Deployment professional, -Tivoli Directory Server V6.3 (ID: PR1587378)
- Training on Computer Networking, -CMC Academy, Jabalpur (45 days)