

# NITISHA JAIN

PhD Student, Information Systems  
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<https://nitishajain.github.io/>



## Education

Nov.2018-present	<b>PhD in Computer Science</b>	<b>Hasso-Plattner-Institut   Universität Potsdam, Germany</b>
	<ul style="list-style-type: none"><li>» Mentors : Prof. Dr. Ralf Krestel, Prof. Dr. Felix Naumann, Information Systems Group</li><li>» Research Focus: Knowledge Graphs, Natural Language Processing, Machine Learning, Semantic Web, Information Systems.</li></ul>	
Aug.2012-Mar.2015	<b>Master Degree in Computer Science</b>	<b>Indian Institute of Science, Bangalore, India</b>
	<ul style="list-style-type: none"><li>» Mentor: Dr. J. Lakshmi, Supercomputer Education and Research Centre</li><li>» Thesis: Performance Specific I/O Scheduling Framework for Cloud Storage</li></ul>	
Aug.2007-Jul.2011	<b>Bachelor Degree in Information Technology</b>	<b>GGSIIP University, New Delhi, India</b>
	<ul style="list-style-type: none"><li>» Focus: Operating Systems, Computer Networks, Cloud Computing.</li></ul>	
Apr.2005-Mar.2007	<b>All India Senior School Certificate Exam</b>	<b>Bal Bharati Public School, New Delhi, India</b>
	<ul style="list-style-type: none"><li>» Focus: Computer Science, Mathematics, Physics, Chemistry.</li></ul>	

## Work Experience

Oct.2020-Jan.2021	<b>PhD Sabbatical</b>	<b>Bosch Centre for Artificial Intelligence (BCAI), Germany</b>
	<ul style="list-style-type: none"><li>» Mentors : Dr. Daria Stepanova, Dr. Trung Kien Tran</li><li>» Research on reasoning and knowledge graphs in Natural Language Processing and Semantic Reasoning group</li></ul>	
Oct.2017-Sep.2018	<b>Research Assistant</b>	<b>Max Planck Institute for Informatics, Saarland University, Germany</b>
	<ul style="list-style-type: none"><li>» Mentors : Dr. Simon Razniewski, Prof. Gerhard Weikum</li><li>» Research on information extraction systems with a focus on high recall.</li><li>» Development of techniques for text classification with neural network based models.</li><li>» Courses: Information Retrieval, Knowledge Representation and Semantic Web.</li></ul>	
Aug.2015-Aug.2017	<b>Research Scientist</b>	<b>IBM Research AI, Bangalore, India</b>
	<ul style="list-style-type: none"><li>» Mentor: Arun Kumar, Senior Researcher and Manager, Cognitive Solutions, IBM AI India</li></ul>	

- » Development of intelligent solutions on top of Watson technologies in the domain of Cognitive Finance and Regulatory Compliance.
- » Design of a data ingestion and enrichment pipeline for unstructured regulatory documents with information extraction techniques.
- » Creation of a rich ontology and knowledge base to enable visualization and search.

Apr2015- May2015	<b>Research Intern</b>	<b>CLOUDS Lab, University of Melbourne,</b> <b>Australia</b>
	<ul style="list-style-type: none"> <li>» Mentor: Prof. Rajkumar Buyya, Department of CIS, University of Melbourne</li> <li>» Implementation of deadline based I/O scheduling on CloudSim framework.</li> <li>» Extension of the CloudSim framework for enabling simulations of deadline constrained disk I/O workloads in Cloud datacenters.</li> </ul>	
Aug.2011 - May2012	<b>Associate Software Engineer</b>	<b>Compro Technologies Pvt Ltd., New Delhi,</b> <b>India</b>
	<ul style="list-style-type: none"> <li>» Software development in C# with Microsoft .Net 3.5 for Rockwell Automation Ltd</li> </ul>	

### » » » Selected Publications

- » **ISWC 2021** Improving Knowledge Graph Embeddings with Ontological Reasoning, International Semantic Web Conference, Research Track Full paper, October 24-28 2021, Online.
- » **ESWC 2021** Do Embeddings Actually Capture Knowledge Graph Semantics?, Extended Semantic Web Conference, Research Track Full paper, June 6-10 2021, Online.
- » **ISWC 2020** Learning Fine-Grained Semantics for Multi-Relational Data, International Semantic Web Conference 2020, Posters and Demos, November 3-6 2020, Online.
- » **ESWC 2020** Domain-Specific Knowledge Graph Construction For Semantic Analysis, Extended Semantic Web Conference 2020, Ph.D. Symposium, June 2-4 2020, Online Edition.
- » **EMNLP 2019** Coverage of Information Extraction from Sentences and Paragraphs, 2019 Conference on Empirical Methods in Natural Language Processing, Hong Kong, November 3-7, 2019 [short paper].
- » **TPDL 2019** Who is Mona L.? Identifying Mentions of Artworks in Historical Archives, International Conference on Theory and Practice of Digital Libraries, Oslo, Norway, September 9-12, 2019 [short paper].
- » **IEEE Transactions 2015** PriDyn:Enabling Differentiated I/O Services in Cloud using Dynamic Priorities, IEEE Transactions on Services Computing, vol.8, no.2, pages 212-224, DOI: 10.1109/TSC.2014.2381251.

### » » » Other Skills

- » **Programming:** Python, Java, C, C++, C#, OWL, SPARQL, MySQL, HTML, XML, Shell scripting.
- » **Packages:** PyTorch, Keras, Protégé, Stanford OpenIE, SpaCy, IBM SystemT, OpenStack, KVM, MS Visual Studio, Java Eclipse IDE, Apache Hadoop.
- » **Languages:** English (expert), German (elementary), Hindi (native).