NITISHA JAIN

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〉〉〉 Education

Nov.2018-Oct.2022	**PhD in Computer Science**	**Hasso-Plattner-Institut	Universität Potsdam, Germany**

❱ Mentors : Prof. Dr. Ralf Krestel, Prof. Dr. Felix Naumann, Information Systems Group

❱ Research Focus: Knowledge Graphs, Natural Language Processing, Machine Learning, Semantic Web, Information Systems.

Aug.2012-Mar.2015	**Master Degree in Computer Science**	**Indian Institute of Science, Bangalore, India**

❱ Mentor: Dr. J. Lakshmi, Supercomputer Education and Research Centre

❱ Thesis: Performance Specific I/O Scheduling Framework for Cloud Storage

Aug.2007-Jul.2011	**Bachelor Degree in Information Technology**	**GGSIP University, New Delhi, India**

❱ Focus: Operating Systems, Computer Networks, Cloud Computing.

Apr.2005-Mar.2007	**All India Senior School Certificate Exam**	**Bal Bharati Public School, New Delhi, India**

❱ Focus: Computer Science, Mathematics, Physics, Chemistry.

〉〉〉 Work Experience

Oct.2020-Jan.2021	**PhD Sabbatical**	**Bosch Centre for Artificial Intelligence (BCAI), Germany**

❱ Mentors : Dr. Daria Stepanova, Dr. Trung Kien Tran

❱ Research on reasoning and knowledge graphs in Natural Language Processing and Semantic Reasoning group

Oct.2017–Sep.2018	**Research Assistant**	**Max Planck Institute for Informatics, Saarland University, Germany**

❱ Mentors : Dr. Simon Razniewski, Prof. Gerhard Weikum

❱ Research on information extraction systems with a focus on high recall.

❱ Development of techniques for text classification with neural network based models.

❱ Courses: Information Retrieval, Knowledge Representation and Semantic Web.

Aug.2015-Aug.2017	**Research Scientist**	**IBM Research AI, Bangalore, India**

❱ Mentor: Arun Kumar, Senior Researcher and Manager, Cognitive Solutions, IBM AI India

❱ 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 | **Research Intern** | **CLOUDS Lab, University of Melbourne, Australia** |

❱ Mentor: Prof. Rajkumar Buyya, Department of CIS, University of Melbourne

❱ Implementation of deadline based I/O scheduling on CloudSim framework.

❱ Extension of the CloudSim framework for enabling simulations of deadline constrained disk I/O workloads in Cloud datacenters.

| Aug.2011 - May2012 | **Associate Software Engineer** | **Compro Technologies Pvt Ltd., New Delhi, India** |

❱ Software development in C# with Microsoft .Net 3.5 for Rockwell Automation Ltd

❱❱❱ Selected Publications

❱ **CIKM 2022**   Discovering Fine-Grained Semantics in Knowledge Graph Relations, ACM International Conference on Information and Knowledge Management, Atlanta, USA, October 17-21, 2022. [full paper]

❱ **SWJ 2021**   Generation of Training Data for Named Entity Recognition of Artworks, Semantic Web Journal (Special Issue Cultural Heritage 2021). [full paper]

❱ **ISWC 2021**   Improving Knowledge Graph Embeddings with Ontological Reasoning, International Semantic Web Conference, October 24-28 2021, Online. [full paper]

❱ **ESWC 2021**   Do Embeddings Actually Capture Knowledge Graph Semantics?, Extended Semantic Web Conference, June 6-10 2021, Online. [full paper]

❱ **ISWC 2020**   Learning Fine-Grained Semantics for Multi-Relational Data, International Semantic Web Conference 2020, November 3-6 2020, Online. [poster]

❱ **ESWC 2020**   Domain-Specific Knowledge Graph Construction For Semantic Analysis, Extended Semantic Web Conference 2020, Ph.D. Symposium, June 2-4 2020, Online.

❱ **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]

❱❱❱ 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).