

Curriculum Viate of Dr. Nidhi Kushwaha

Dr. Nidhi Kushwaha

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Education & Work Experience	Indian Institute of Information Technology, Ranchi, India Ad-hoc Faculty	Jan.2022-till now
	Indian Institute of Information Technology, Una, India Guest Faculty	Aug.2020-Dec. 2021
	University of Messina, Messina, Italy Mobile and Distributed Systems Laboratory (MDSLab) Research Assistant Advisor: Prof. Antonio Puliafito Topic: SmartME Applications & semantic incorporation	2017
	Indian Institute of Information Technology, Allahabad, India. Ph.D. Advisor: Prof. Dr. O. P. Vyas Thesis submitted Dissertation Title: Exploring Linked Open Data in context of Recommender System Worked on different heuristic and model based techniques for inclusion of semantics to generate recommendations. For this we have explored Linked Open Data Cloud and used the tools and techniques involved in semantic data storage, retrieval and processing. Also, explored matrix factorization machines for rate prediction.	2011-2016
	Center of Development of Advance Computing, Noida, India. Master of Technology Dissertation Title: Study of Paraphrase in the context of plagiarism Worked on generating similarity between different documents, using WordNet Ontology and similarity matching techniques.	2009-2011

	<p>Integral University, Lucknow, India Bachelor of Technology Dissertation Title: A Assistant for Blind Used SAPI (Speech Application Programming Interface) for merging Text to Speech and Speech to Text and developed application to assist partially blind people.</p>	<p>2005-2009</p>
<p>Selected Publications</p>	<ul style="list-style-type: none"> ➤ Paper under process named “A Predictive Sensing Case Study for Environmental Monitoring Infrastructure of #SmartME”. ➤ A Lesson learned from PMF based approach for Semantic Recommender System N Kushwaha, X Sun, B Singh, OP Vyas Journal of Intelligent Information Systems (SCI-Expanded), Springer, pp.1-14, DOI. 10.1007/s10844-017-0467-2, 2017. ➤ Integrating IoT and Cloud in a Smart City context: the #SmartME case study D Bruneo, F Longo, G Merlino, A Puliafito, N Kushwaha. International Journal of Computer Applications in Technology, Scopus (Elsevier), Inderscience Publishers, 2017. Volume 57 Issue 4, January 2018, Pages 267-280, 1741-5047, doi:10.1504/IJCAT.2018.10014725 ➤ Inclusion of Semantic and Time-Variant Information Using Matrix Factorization Approach for Implicit Rating of Last. Fm Dataset N Kushwaha et al. Arabian Journal for Science and Engineering (SCI-Expanded), Springer, Volume 41, Issue 12, pp 5077–5092, 2016. 2191-4281, https://doi.org/10.1007/s13369-016-2209-0 ➤ SemPMF: Semantic Inclusion by Probabilistic Matrix Factorization for Recommender System Nidhi Kushwaha, Xudong Sun, O P Vyas and Artus Krohn Grimberghe Proceedings of 14th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS-2016) Special session on WebMiReS: Web Mining and Recommender systems, University of Sevilla, Sevilla (Spain), 2016. ➤ Information theoretic approach for cold start users with diversity improvement technique for semantic Recommender System N Kushwaha, O P Vyas International Journal of Metadata, Semantics and Ontologies (IJMSO), Inderscience, Volume 10, Issue 4, pp. 281-290, 2015. Doi:10.1504/IJMSO.2015.074753 ➤ SemTopMF: Predicting Recommendation by Semantic Topics through Matrix Factorization Approach 	

	<p>N Kushwaha, O P Vyas Proceedings of the 11th International Conference on Web Information Systems and Technologies (WEBIST-2015),pp.118-123, Lisbon, Portugal, 20-22, May, 2015, DOI: 10.5220/0005475001180123</p> <p>➤ SemMovieRec: extraction of semantic features of DBpedia for Recommender System N Kushwaha, O P Vyas Proceedings of the 7th ACM India Computing Conference, (COMPUTE-2014), Nagpur, India, pp. 1-9 October 9-11, 2014</p>	
Teaching Experience	<p>Theory and Lab of following subjects: a. Object-Oriented Programming C++ in UG b. Artificial Intelligence in UG c. Software Maintenance in UG</p> <p>Project guidance Guided various mini projects in UG</p>	
Honors	<p>Ministry of Human Resource Development, Government of India, scholarship during Ph.D.</p> <p>Invited as a research student in the Analytic Information Systems and Business Intelligence department of University of Paderborn, Germany.</p> <p>Collaborative research work with Xudong and Prof. Artus Krohn Grimberghe</p>	<p>2011- 2016</p> <p>May, 2015</p> <p>May, 2015 -Feb, 2016</p>
Skills	<p>Programming Language: C++, Python, Nodejs, shell scripting Database: Oracle, Virtuoso RDF storage Developer tools: Netbeans, Eclipse Tools: R Tool, Protégé, RapidMiner, Weka, Jena, Matlab, Apache Mahout Semantic Web Skills: RDF/XML, SPARQL, OWL, Ontologies Operating System: Windows, Linux Language: English, Hindi, Italian(Beginners)</p>	
Extra Activities	<p>Participated in Reinforcement Learning and its applications, organized by PDPM IIT, Design and Manufacturing, Jabalpur, 7th June-11th June 2021</p> <p>Participated in ACM India Summer School on IoT and Embedded Systems organized by IIT Bangalore, 7th July-14th July 2021</p>	

	<p>Delivered a talk on Machine Learning to MCA students of PG govt. college, Una on 15th Dec. 2020.</p> <p>Mentoring the team participating in ACM ICPC Amritapuri Regional chapter.</p> <p>Done certified MOOC course work on Knowledge Engineering with Semantic Web Technologies (openHPI) by Prof. Harald Sack, Hasso-Plattner-Institut, Germany. Year: 2014, 2015.</p> <p>Participated in Workshop on Big Data analytics in Indian Statistical Institute, India. Aug. 2015</p> <p>Participated in one-week Summer Workshop on Semantic Web and Agent Technology, National Institute of Technology, Durgapur, India, April 2014.</p> <p>Done Course Work on Mobile Software Engineering. (new subject in all over India), 2014.</p> <p>Done Course Work on Research Methodology, 2014.</p> <p>Paper presentation in National Seminar on Data Mining Applications in Health Care, Indian Institute of Information Technology Allahabad, India, June 2013.</p> <p>Participated and Poster paper presentation in Winter school on Machine Learning and Text Analytics, South Asian University, India, Dec. 2013.</p>
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Date: 17th Jan. 2022

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