

## Shashank Gupta

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**RESEARCH INTERESTS** Machine Learning, Information Retrieval, Recommendation Systems, Natural Language Processing and Deep Computer Vision

**EDUCATION** **International Institute of Information Technology**, Hyderabad, India  
*Master of Science*, Computer Science and Engineering, June 2015 - Present  
*Advisors:* Dr. Vasudeva Varma, Dean R&D, IIIT-Hyderabad  
Dr. Manish Gupta, Senior Applied Scientist, Microsoft, Hyderabad

**Birla Institute of Technology and Science**, Pilani, India  
*Master of Engineering*, Software Systems, June 2014 - June 2015

**Birla Institute of Technology**, Mesra, India  
*Bachelor Of Technology*, Computer Science and Engineering, June 2010 - June 2014

**PROFESSIONAL ACTIVITIES** **External Reviewer:** TKDE 2017, CIKM 2017, ICON 2017  
**PC Member:** NIPS 17 Machine Learning for Health Workshop (ML4H)  
**Teaching Assistant:** Machine Learning course at IIIT-Hyderabad and BITS Pilani

**RELEVANT EXPERIENCE** **Tata Research, Design and Development Center**, Pune, India  
*Research Internship* May 2017 - July 2017  
*Mentors:* Girish Palshikar, Sachin Pawar, Nitin Ramrakhiyani  
Worked on semi-supervised learning based methods for Adverse Drug Reaction (ADR) mention extraction from social media posts.  
Work lead to a publication at CIKM'17.

**ParallelDots**, New Delhi, India  
*Research Internship* May 2016 - July 2016  
*Mentor:* Muktabh Mayank  
Developed an ensemble based deep neural network model for the task of Sentiment Analysis on twitter.  
Developed a content based recommendation system using deep graph embeddings. (Under review at a conference)

**PUBLICATIONS** **Semi-Supervised Recurrent Neural Network for Adverse Drug Reaction Mention Extraction**

Shashank Gupta, Sachin Pawar, Nitin Ramrakhiyani, Girish Keshav Palshikar, Vasudeva Varma  
CIKM 2017 (11th Workshop on Data and Text Mining in Biomedical informatics)

**Enhancing Categorization of Computer Science Research Papers using Knowledge Bases,**

Shashank Gupta, Priya Radhakrishnan, Manish Gupta, Vasudeva Varma  
SIGIR 2017 (Workshop on Knowledge Graphs and Semantics for Text Retrieval and Analysis)

**Deep Neural Architectures for News Recommendation,**

Vaibhav Kumar, Dhruv Khattar, Shashank Gupta, Manish Gupta, Vasudeva Varma  
Conference and Labs of the Evaluation Forum (CLEF) 2017

**Simultaneous Inference of User Representations and Trust,**

Shashank Gupta, Pulkit Parikh, Manish Gupta, Vasudeva Varma

International Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2017

**Deep Learning for Hate Speech Detection in Tweets**

Pinkesh Badjatiya\*, Shashank Gupta\*, Manish Gupta, Vasudeva Varma (**\*Equal Contribution**)(**Best Poster Award**)

International Conference on World Wide Web Companion (WWW) 2017 (Poster Track)

**Scientific Article Recommendation by using Distributed Representations of Text and Graph**

Shashank Gupta, Vasudeva Varma

International Conference on World Wide Web Companion (WWW) 2017 (Workshop Track)

**User Profiling based Deep Neural Network for Temporal News Recommendation**

Vaibhav Kumar, Dhruv Khattar, Shashank Gupta, Manish Gupta, and Vasudeva Varma  
ICDM 2017 (Workshop Track)

**Word Semantics based 3D Convolutional Neural Networks for News Recommendation**

Vaibhav Kumar, Dhruv Khattar, Shashank Gupta and Vasudeva Varma  
ICDM 2017 (Workshop Track)

**UNDER  
REVIEW**

**Multi-Task Learning for Extraction of Adverse Drug Reaction Mentions from Tweets**

Shashank Gupta, Manish Gupta, Vasudeva Varma, Sachin Pawar, Nitin Ramrakhiyani, Girish Keshav Palshikar

**A Co-training Based Method for Extraction of Adverse Drug Reaction Mentions from Tweets**

Shashank Gupta, Manish Gupta, Vasudeva Varma, Sachin Pawar, Nitin Ramrakhiyani, Girish Keshav Palshikar

**A Comparative Study of Embeddings Methods for Hate Speech Detection from Tweets**

Shashank Gupta, Zeerak Waseem

**Recurrent Attention Model for News Recommendation**

Vaibhav Kumar, Dhruv Khattar, Shashank Gupta, Manish Gupta, and Vasudeva Varma

**Hybrid Neural Model for News Recommendation**

Vaibhav Kumar, Dhruv Khattar, Shashank Gupta, Manish Gupta, and Vasudeva Varma

**SKILLS  
& TOOLS**

Theano, Tensorflow, PyTorch, Keras, Scikit-Learn

Lucene, ElasticSearch

Python, MATLAB, C, C++, Java

**SELECTED  
PROJECTS**

**Trust-Prediction in Social Network using Optimization based algorithms and Auto-encoders, April 2016 - July 2016**

Worked on the problem of Trust-Prediction in Social Media using linear and Neural-Network based Matrix Factorization methods. [Link to Project](#)

**Sandhan, Cross Lingual Information Access System, Jan 2017 - June 2017**

A multi-institutional project funded by Department of Defence (Govt. of India) where my responsibilities are to contribute to the query processing pipeline which involves development of query translation and transliteration engine to enable cross language

search in 9 different Indian Languages.

**AWARD AND  
ACHIEVE-  
MENTS**

TCS Research Travel Grant for attending CIKM'17.  
Selected to attend IISC's Winter School on Machine Learning 2015.  
Received the Best Poster Paper Award at International World Wide Web Conference (WWW) 2017.  
Work on Hate Speech Detection got covered in The Hindu, Indian Express and few other leading media outlets. [Official Link](#)

**RELEVANT  
COURSEWORK**

Machine Learning  
Information Retrieval and Extraction  
Topics in Information Retrieval  
Topics in Natural Language Processing  
Digital Image Processing

**TALKS**

*Scientific Article Recommendation using Deep Embeddings*, Presented at World Wide Web Conference, Perth, 2017 Slides  
*Trust Prediction in Social Network using Deep Neural Networks*, Presented at ASONAM conference, Sydney, 2017 Slides  
*Semi-supervised Recurrent Neural Network for Adverse Drug Reaction Mention Extraction from Twitter*, Presented at CIKM Conference, Singapore, 2017 Slides

**Invited Talks**

*Machine Learning Methods for Mining Adverse Drug Reactions from Social Media*, Presented at DUKE-NUS Medical School, Singapore, 2017