

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
Master of Science, Computer Science and Engineering, June 2015 - Present
Advisors: Dr. Vasudeva Varma, Dean R&D, IIIT-Hyderabad
Dr. Manish Gupta, Principal Applied Scientist, Microsoft, Hyderabad

Birla Institute of Technology and Science, Pilani
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 **Reviewer:** NIPS 2017 ML4H, WSDM 2018 learn-IR
External Reviewer: TKDE 2017, CIKM 2017, ICON 2017
PC Member: NIPS 17 ML4H, WSDM 2018 learn-IR
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 led to publications at CIKM'17 and NIPS'17 and ECIR'18.

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)

JOURNAL PUBLICATIONS **Semi-Supervised Recurrent Neural Network for Adverse Drug Reaction Mention Extraction**
Shashank Gupta, Sachin Pawar, Nitin Ramrakhiyani, Girish Keshav Palshikar, Vasudeva Varma
BMC Bioinformatics Special Issue (Presented at CIKM 2017)

CONFERENCE PUBLICATIONS **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
ECIR 2018

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
NIPS 2017 (Machine Learning for Health Workshop)

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
ECIR 2018

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
NIPS 2017 (Machine Learning for Health Workshop)

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**

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

Shashank Gupta, Zeeraak 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.

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

Travel Grant to attend NIPS 2017.

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. <http://bit.ly/2k9FnFi>

RELEVANT COURSEWORK

Machine Learning

Information Retrieval and Extraction

N 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 <http://bit.ly/2nfmhi3>

Trust Prediction in Social Network using Deep Neural Networks, Presented at ASONAM conference, Sydney, 2017 <http://bit.ly/2zya7CF>

Semi-supervised Recurrent Neural Network for Adverse Drug Reaction Mention Extraction from Twitter, Presented at CIKM Conference, Singapore, 2017 <http://bit.ly/2AHby5Y>

INVITED TALKS

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

Deep Learning Methods for Recommendation Systems, Presented at Thiagarajar College of Engineering, Madurai