Shashank Gupta

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Github: https://github.com/shashankg7   Gachibowli, IIIT-Hyderabad
Blog: http://shashank-gupta.com/blog/   **Web-Page:** http://shashank-gupta.com/

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, Principal 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 ACHIEVEMENTS
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