Shashank Gupta

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Blog: http://shashank-gupta.com/blog/ Web-Page: http://shashank-gupta.com/

RESEARCH **INTERESTS** Information Retrieval, Machine Learning, Recommendation Systems, Natural Lan-

guage Processing and Deep Computer Vision

EDUCATION International Institute of Information Technology, Hyderabad

Master of Science By Research, Computer Science and Engineering, June 2015 - June'18

Advisors: Dr. Vasudeva Varma, Dean R&D, IIIT-Hyderabad

Dr. Manish Gupta, Principal Applied Scientist, Microsoft, Hyderabad Research Group: Search and Information Extraction Laboratory (SIEL)

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

ACTIVITIES

PROFESSIONAL Reviewer: PLOS ONE (Journal), ECIR'19, ML4H@NIPS'18, ICON'18, DTMBIO@CIKM'18,

ML4H@NIPS'17, learn-IR @WSDM'18, Drug Safety Journal, Transactions of Data Sci-

ence, afriCHI

External Reviewer: TKDE 2017, CIKM 2017, ICON 2017

PC Member: ECIR'19, ML4H@NIPS'18, ICON'18, DTMBIO@CIKM'2018, NIPS

17 ML4H, WSDM-18 learn-IR, afriCHI

Teaching Assistant: Information Retrieval and Extraction, IIIT-H (under Prof. Vasudeva Varma), Machine Learning, IIIT-Hyderabad (under Prof. C.V.

Jawahar), Machine Learning, BITS-Pilani (under Prof. Navneet Goyal)

RELEVANT **EXPERIENCE** Flipkart, Bangalore, India

Data Scientist, Search Ranking Team, July 2018 - Current

Mentor: Mohit Kumar

Working on Personalized Search for Flipkart.

Conduent Labs (erstwhile Xerox Research (XRCI)), Bangalore, India

Research Internship, Jan 2018 - May 2018

Mentors: Manjira Sinha & Sandya Mannarswamy

Worked on the problem of Fake News Detection. Proposed a novel Coupled Matrix-Tensor Factorization based solution for the probblem. Research paper as a result of

the work accepted at ASONAM 2018.

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,

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 from twitter. Also worked on a content based recommendation system using deep graph embeddings (Under review at a conference).

JOURNAL

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

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

BMC Bioinformatics Special Issue (Presented at CIKM 2017)

CONFERENCE **PUBLICATIONS**

RARE: A Recurrent Attentive Recommendation Engine for News Aggre-

Vaibhav Kumar, Dhruv Khattar, Shashank Gupta, Manish Gupta, and Vasudeva Varma CIKM 2018, Workshop on News Recommendation and Analytics (INRA 2018)

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

Shashank Gupta, Zeerak Waseem

EMNLP 2018 Workshop on Noisy User Generated Text (Accepted as a poster)

CIMTDetect: A Community Infused Matrix-Tensor Coupled Factorization Based Method for Fake News Detection

Shashank Gupta, Raghuveer Thirukovalluru, Manjira Sinha and Sandya Mannarswamy. ASONAM 2018 (Short Paper)

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 (Full Paper).

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 (Short Paper).

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).

TCS Research at TAC 2017: Joint Extraction of Entities and Relations from Drug Labels using an Ensemble of Neural Networks

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

TAC 2017 ADR Track

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 Knowl-

edge Bases.

Shashank Gupta, Priya Radhakrishnan, Manish Gupta, Vasudeva Varma SIGIR 2017 (Works. on Knowledge Graphs & Semantics for Text Retrieval & 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

Inter. Conf. 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)

Intern. Conf. on World Wide Web Companion (WWW) 2017 (Poster Track)

Scientific Article Recommendation by using Distributed Representations of Text and Graph

Shashank Gupta, Vasudeva Varma

Intern. Conf. 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**

Pharmacovigilance from Social Media using Limited Labeled Data

Shashank Gupta (MSc. Thesis Proposal)

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 amongst users in a social network 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 were 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-

Travel Grant to attend NIPS 2017.

TCS Research Travel Grant for attending CIKM'17.

MENTS Selected to attend IISC's Winter School on Machine Learning 2015. Received the Best Poster Paper Award at International World Wide Web Con-

ference (WWW) 2017.

Work on Hate Speech Detection got covered in The Hindu, Indian Express and few

other leading news outlets. http://bit.ly/2k9FnFi

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 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 Extrac-

tion from Twitter, Presented at CIKM Conference, Singapore, 2017 http://bit.ly/2AHby5Y

Pharmacovigilance from Social Media using Multi-task and Semi-Supervised Learning,

Presented at ECIR Conference, Grenoble, 2018

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 Col-

lege of Engineering, Madurai

Information Retrieval from Social Media, Presented at Alumni Research Talk (ART),

BITS Pilani, Pilani.