

## Shashank Gupta

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**Google Scholar Profile:** <https://bit.ly/2E6bw7W>

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**RESEARCH INTERESTS** Information Retrieval, Machine Learning, Conversational Recommendation Systems, Causal Inference.

**EDUCATION**

**University of Amsterdam**  
*PhD*, ML and IR, April 2021 - Current  
*Advisors:* Dr. Maarten De Rijke, UvA  
Dr. Harrie Oosterhuis, Radboud University  
*Research Group:* **The Information Retrieval Lab (IRLab)**

**International Institute of Information Technology**, Hyderabad  
*Master of Science By Research*, Computer Science and Engineering, June 2015 - Dec'17  
*Advisors:* Dr. Vasudeva Varma, Dean R&D, IIIT-Hyderabad  
Dr. Manish Gupta, Principal Applied Scientist, Microsoft, Hyderabad  
*Research Group:* **Information Retrieval and Extraction Laboratory (IREL)**

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

**PROFESSIONAL ACTIVITIES**

**Reviewer:** ECIR'21, ICLR'21, AAAI'21, ECIR'20, EMNLP'20, IJCNLP'20, IRJ, ECIR'19, ML4H@NIPS'17-18

**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 - Jan 2021  
*Mentor:* Mohit Kumar  
Worked on learning to rank methods for personalized search. Also worked on the problem of Session Length Prediction for user's incoming search session to help disambiguate his explore v/s purchase intent (SIGIR'20).

**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 problem (ASONAM 2018).

**Tata Research, Design and Development Center**, Pune, India  
*Research Internship*, May 2017 - July 2017  
*Mentors:* Girish Palshikar, Sachin Pawar & Nitin Ramrakhiani  
Worked on Semi-supervised and Multi-task learning based methods for Adverse Drug Reaction (ADR) mention extraction from social media posts (ECIR'18, CIKM'17 and NeuRIPS'17 Workshop).

**CONFERENCE PUBLICATIONS**

**Predicting Session Length for Product Search on E-commerce Platform**  
Shashank Gupta, Subhadeep Maji  
SIGIR 2020, Short Paper.

**RARE : A Recurrent Attentive Recommendation Engine for News Aggregators**  
Vaibhav Kumar, Dhruv Khattar, Shashank Gupta, Manish Gupta, and Vasudeva Varma  
CIKM 2018, Workshop on News Recommendation and Analytics (INRA 2018)

**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) and NIPS 2017 ML4H 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) and NIPS 2017 ML4H Workshop.

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

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

**Enhancing Categorization of Computer Science Research Papers using Knowledge 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)

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 models and Neural-Network based non-linear Matrix Factorization methods. The goal was to predict trust relationship between pair of users based on their social network.

## AWARD AND ACHIEVEMENTS

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 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

*Session Length Prediction for Product Search on E-commerce Platform*, Presented at SIGIR, 2020 <https://dl.acm.org/doi/abs/10.1145/3397271.3401219>

*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>

*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 College of Engineering, Madurai

*Information Retrieval from Social Media*, Presented at Alumni Research Talk (ART), BITS Pilani, Pilani.