Shashank Gupta

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Github: https://github.com/shashankg7 Gachibowli, IIIT-Hyderabad

RESEARCH INTERESTS Machine Learning, Information Retrieval, Recommendation Systems, Natural Language Processing, 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

Teaching Assistant: Machine Learning course at IIIT-Hyderabad and BITS Pilani
External Reviewer: TKDE 2017, CIKM 2017

RELEVANT EXPERIENCE

Tata Research, Design and Development Center, Pune, India
Research Internship May 2017 - Present
Mentors, Girish Palshikar, Sachin Pawar, Nitin Ramrakhiyani
Working on semi-supervised learning based methods for Adverse Drug Reaction (ADR) mention extraction from social media posts.

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 for scientific article recommendation using representation learning models for graph. (Work under review)

PUBLICATIONS

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)

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

UNDER REVIEW

Enhancing Categorization of Computer Science Research Papers using Knowledge Bases,
Shashank Gupta, Priya Radhakrishnan, Manish Gupta, Vasudeva Varma
Under Review

Semi-Supervised Recurrent Neural Network for Adverse Drug Reaction Extraction
Shashank Gupta, Sachin Pawar, Nitin Ramrakhiyani, Girish Keshav Palshikar, Vasudeva Varma
Under Review

Scientific Article Recommendation by using Distributed Representation of the Bibliographic Network
Shashank Gupta, Muktabh Mayank
Under Review

SKILLS & TOOLS

Theano, Tensorflow, PyTorch, Keras, Scikit-Learn
Lucene, ElasticSearch
Python, MATLAB, C, C++, Java

SELECTED PROJECTS

Content-Based Recommendation System using Distributed Representations of Graph and Text, December 2016 - March 2017
Worked with Prof. Vasudeva Varma to create a content based scientific article recommendation system. It uses Canonical Correlation Analysis (CCA) to combine distributed representations of article's content and bibliographic network. Publication accepted at World Wide Web workshop.

Trust-Prediction in Social Network using Optimization based algorithms and Autoencoders, 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

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
Data Mining
Information Retrieval and Extraction
Topics in Information Retrieval
Topics in Natural Language Processing
Digital Image Processing

TALKS

Introduction to Theano : Case Study of Word Embeddings, Reading Group, SIEL, IIIT-H Slides
Information Retrieval using Deep Learning, Reading Group, SIEL, IIIT-H Slides