SHIKHAR VASHISHTH

CONTACT INFORMATION	MALL Lab, CDS, Indian Institute of Science, Bangalore	*Email:* shikhar@iisc.ac.in *Links:* Webpage, Scholar, Github

EDUCATION

Indian Institute of Science, Bangalore, India 2016-Present
Google PhD Fellow *at Dept. of Computer Science and Automation* GPA: 9.1/10
Advisors: Partha Talukdar, Chiranjib Bhattacharyya, Manaal Faruqui
[**To submit thesis by Nov. 2019**]

Birla Institute of Technology and Science, Pilani; Pilani, India 2012-2016
M.Sc.(Tech.) Information Systems GPA: 9.18/10
With Distinction, Rank #1 in branch

WORK EXPERIENCE

Google Research, New York, NY, USA 05/19 - Present
Research Intern in Google Assistant Team

ADAPT Lab, BITS Pilani, India 01/16 - 05/16
Undergraduate Thesis (Advisor: Navneet Goyal)
Worked on designing a hybrid algorithm for Principal Components Analysis (PCA).

Microsoft IDC, Hyderabad, India 05/15 - 07/15
SDE Intern, Microsoft Office Team
Worked on integrating Google Sign-in in Office android apps for reducing user friction.

CMC Ltd, Mumbai, India 05/14 - 07/14
SDE Intern, Java and Web Development Team
Worked with LEARN team on enhancing interactivity of project's web pages.

PUBLICATIONS

Shikhar Vashishth, S. Sanyal, V. Nitin, P. Talukdar. **"CompGCN: Composition-based Multi-Relational Graph Convolutional Networks"**, [Under Review].

Shikhar Vashishth, S. Sanyal, V. Nitin, P. Talukdar. **"InteractE: Improving Convolution based Knowledge Graph Embeddings by Increasing Feature Interactions"**, [Under Review].

Shikhar Vashishth, M. Bhandari, P. Yadav, P. Rai, C. Bhattacharyya, P. Talukdar. **"Incorporating Syntactic and Semantic Information in Word Embeddings using Graph Convolutional Networks"**, Proceedings of Association of Computational Inguistics (**ACL 2019**), Florence, Italy.

P. Yadav, M. Nimishakavi, N. Yadati, Shikhar Vashishth, A. Rajkumar, P. Talukdar. **"Lovasz Convolutional Networks"**. Proceedings of International Conference on Artificial Intelligence and Statistics (**AISTATS 2019**), Naha, Okinawa, Japan.

Shikhar Vashishth, P. Yadav, M. Bhandari, P. Talukdar. **"Confidence-based Graph Convolutional Networks for Semi-Supervised Learning"**. Proceedings of International Conference on Artificial Intelligence and Statistics (**AISTATS 2019**), Naha, Okinawa, Japan.

Shikhar Vashishth, R. Joshi, S. P. Suman, C. Bhattacharyya, P. Talukdar. **"RESIDE:**

Improving Distantly-Supervised Neural Relation Extraction using Side Information", Proceedings of Conference on Empirical Methods in Natural Language Processing (**EMNLP 2018**), Brussels, Belgium.

Shikhar Vashishth, S. S. Dasgupta, S. N. Ray, P. Talukdar. **"Dating Documents using Graph Convolution Networks"**, Proceedings of Association of Computational Inguistics (**ACL 2018**), Melbourne, Australia.

Shikhar Vashishth P. Jain, P. Talukdar. **"CESI: Canonicalizing Open Knowledge Bases using Embeddings and Side Information"**. Proceedings of The Web Conference 2018 (**WWW 2018**), Lyon, France. [Acceptance Rate: 14.8 %]

Y. Sinha, Shikhar Vashishth, K Hari Babu. **"Meticulous Measurement of Control Packets in SDN"**. Proceedings of ACM Symposium on SDN Research, (**SOSR 2017**), Santa Clara, CA.

Shikhar Vashishth, Y. Sinha, K Hari Babu. **"Addressing Challenges in Browser Based P2P Content Sharing Framework Using WebRTC"**. Proceedings of 30th IEEE International Conference on Advanced Information Networking and Applications, (**AINA 2016**), Switzerland.

Y. Sinha, Shikhar Vashishth, K Hari Babu. **"Real Time Monitoring of Packet Loss in Software Defined Networks"**. Proceedings of International Conference on Ubiquitous Communications and Network Computing 2017.

Y. Sinha, Shikhar Vashishth, K Hari Babu. **"Estimation of raw packets in SDN"**. Proceedings of International Conference on Ubiquitous Communications and Network Computing 2017.

Shikhar Vashishth, Y. Sinha, K Hari Babu. **"A Browser-based Distributed Framework for Content Sharing and Student Collaboration"**. Proceedings of 4th International Conference on Advanced Computing, Networking, and Informatics.

SKILLS	**Programming Languages:** Python, C, C++, Java, R, MatLab, JavaScript, NodeJS
	Tools and Systems: TensorFlow/Pytorch, Open-GL/MP/CV, MPI, Linux, Git

POSITION OF
RESPONSIBILITY

Tutorial: Graph-based Deep Learning in Natural Language Processing
2019 Conference on Empirical Methods in Natural Language Processing [Upcoming]

Reviewer for ACL, EMNLP, ICLR, CoNLL,
Neurocomputing Journal, Natural Language Engineering. 2019

Teaching Assistant for Algorithms and Programming Fall 2018
Indian Institute of Science, Bangalore.

Teaching Assistant for Data mining Spring 2019
Birla Institute of Science and Technology, Pilani.

Techno team head at Nirmaan Organization Fall 2014
Supervised team in online and on campus publicity of Nirmaan.

HONORS AND
AWARDS

- Recipient of Google India PhD Fellowship 2018.
- Microsoft Research grant for attending ACL 2018, Melbourne.
- Google Travel grant for attending WWW 2018, Lyon, France.
- BITSAA Travel grant for attending AINA 2016, Switzerland.
- Secured 49th rank (top 0.04%) in GATE 2016 CSIT.
- Qualified for ACM ICPC 2014 Kharagpur regionals.
- Secured 8,848 rank (top 1.8%) in IIT-JEE
- Secured 4,334 rank (top 0.74%) in AIEEE