Anirban Laha

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Research Interests

Machine Learning, Deep Learning, Natural Language Processing and Generation, Graphical Models, Argumentation Mining.

Education

Indian Institute of Science (IISc), Bangalore   *Bangalore, India*
MS - RESEARCH IN COMPUTER SCIENCE AND AUTOMATION   *Jul. 2011 - Aug. 2013*

Jadavpur University, Kolkata   *Kolkata, India*
BE IN COMPUTER SCIENCE AND ENGINEERING   *Jul. 2006 - Apr. 2010*

Work Experience

IBM Research AI   *Bangalore, India*
RESEARCH SOFTWARE ENGINEER   *November 2015 - PRESENT*
- *Research Projects*: Natural Language Generation, IBM Debating Technologies, Machine Learning for Creativity.

Microsoft IDC (AdCenter)   *Bangalore, India*
APPLIED SCIENTIST   *Aug. 2013 - Nov. 2015*
- *Project*: Experimentation and development of Click Prediction models for Ads Optimization of Microsoft Bing Ads in US and INTL Markets.

Amazon.com   *Chennai, India*
SOFTWARE DEVELOPMENT ENGINEER   *May. 2010 - Jul. 2011*
- *Project*: Development of automated real-time scalable Pricing System for Amazon Kindle eBooks for markets like US, UK and DE.

Selected Research Publications

1. Laha A., Chemmengath S.A., Agrawal P., Khapra M., Sankaranarayanan K., Ramaswamy H.G. (2018). *On Controllable Sparse Alternatives to Softmax*. In **Neural Information Processing Systems (NIPS), 2018**.

2. Nema P., Khapra M., Laha A., Ravindran B. (2017). *Diversity driven Attention Model for Query-based Abstractive Summarization*. In **Association for Computational Linguistics (ACL) 2017**.

3. Laha A., Pahuja V., Mirkin S., Raykar V., Kotlerman L., Lev G. (2017). *Joint Learning of Correlated Sequence Labelling Tasks Using Bidirectional Recurrent Neural Networks*. In **INTERSPEECH 2017**.

4. Laha A. and Raykar V. (2016). *An Empirical Evaluation of various Deep Learning Architectures for Bi-Sequence Classification Tasks*. In **International Conference on Computational Linguistics (COLING)** 2016.

5. Nema P., Shetty S., Jain P., Laha A., Sankaranarayanan K. and Khapra M. (2018). *Generating Descriptions from Structured Data Using a Bifocal Attention Mechanism and Gated Orthogonalization*. In North American Chapter of the Association for Computational Linguistics (**NAACL-HLT 2018**).

6. Jain P., Laha A., Sankaranarayanan K., Nema P., Khapra M. and Shetty S. (2018). *A Mixed Hierarchical Attention based Encoder-Decoder Approach for Standard Table Summarization*. In North American Chapter of the Association for Computational Linguistics - Short paper (**NAACL-HLT 2018)**.

Highlights

- IBM Research Labs (India) **Distinguished Paper Award** for paper published at ACL 2017.

- **RANK 1** in the research interviews of IISc, Bangalore (among all MS and PhD applicants).

- **All-India Rank of 82** in GATE 2010 (with percentile of 99.9 in CS).

- **RANKED in Top-3** during BE in CS Dept. of Jadavpur University, Kolkata.

- Awarded the prestigious **Jagadish Bose National Science Talent Search** Senior Scholarship in 2006.

- PC member of ACL 2018 and COLING 2018 and Reviewer for VLDB 2017, NIPS 2017, NIPS 2018, and AAAI 2019.

- Efforts towards IBM Project Debater led to a live machine vs human debate. (NYT | Forbes | The Guardian).

Invited Talks and Tutorials

Selected Patents

Other Publications

- Shrivastava D., Chemmengath S.A., <u>Laha A.</u>, Sankaranarayanan K. (2017). *A Machine Learning Approach for Evaluating Creative Artifacts*. In **SIGKDD Workshop on Machine Learning for Creativity (ML4Creativity), 2017**.

- Jain P., Agrawal P., Mishra A., Sukhwani M., <u>Laha A.</u>, Sankaranarayanan K. (2017). *Story Generation from Sequence of Independent Short Descriptions*. In **SIGKDD Workshop on Machine Learning for Creativity (ML4Creativity), 2017**.

- <u>Laha A.</u>, Dey P., Bandyopadhyay S., Mukherjee S., Vallam R.D., Garg D., Ray R., Narahari Y. (2012). *Prediction Markets: Connections with Proper Scoring Rules*. **Technical Report**.

- Mukherjee S., Roy B., <u>Laha A.</u> (2010). *An Efficient Cryptographic Hash Algorithm (BSA)*. In **10th National Workshop on Cryptology (NWC), 2010**.

Professional Service

Research Projects

Awards and Achievements

Extra Curricular Activities

References

1. Dr. **Karthik Sankaranarayanan** (Senior Researcher and Research Manager, IBM Research - India), kartsank@in.ibm.com.
2. Dr. **Mitesh M. Khapra** (Assistant Professor, CSE, Indian Institute of Technology, Madras), khapra.mitesh@gmail.com.
3. Dr. **Vikas C. Raykar** (Senior Researcher, IBM Research - India), viraykar@in.ibm.com.
4. Dr. **Shivani Agarwal** (Assistant Professor, CSA, Indian Institute of Science), ashivani@seas.upenn.edu.