

PRAKHAR GUPTA

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RESEARCH INTERESTS

My research interests lie in natural language processing and machine learning in general, and specifically in problems related to deep generative models for natural language and dialog systems. I have also worked on problems related to vision and online learning.

EDUCATION

M.S., LANGUAGE TECHNOLOGIES INSTITUTE
Carnegie Mellon University, PA, USA
GPA: 4.04

August 2018 - Present

M.TECH. AND B.TECH. (DUAL DEGREE) IN CS
Indian Institute of Technology, Roorkee, India
GPA: 8.95/10, Distinction awarded

July 2010 - June 2015

EXPERIENCE

RESEARCH ASSOCIATE 2
Adobe Research, India

July 2015 - August 2018

- Implemented user profiling, time series prediction and data summary generation components of a system which providing personalized insights and alerts for marketers.
- Developed a query reformulation system for a commercial image search engine with Seq2Seq models that captures session context, and a multitask architecture that simultaneously optimizes the ranking of results.
- Implemented a system for identifying fine-grained stories within a broader trending topic on Twitter, by online clustering of streaming tweets.

TECHNICAL SKILLS

- Python (including scikit-learn, Pandas, numpy, etc.), Java, C++, node.js, Javascript, React
- Experience with frameworks like Pytorch, Tensorflow, Keras, Hadoop, MapReduce and computing clusters.
- Courses - Deep Learning, Machine Learning, Algorithms for NLP, Neural Networks for NLP
- Data mining, cleaning, and imputing, statistical data modeling, quick prototype development

SELECTED PUBLICATIONS

- **Prakhar Gupta**, Vinayshekhar Bannihatti Kumar, Mukul Bhutani, and Alan W Black. *Writerforcing: Generating more interesting story endings*. In Proceedings of the Second Workshop on Storytelling, ACL, 2019
- **Prakhar Gupta**, Shikib Mehri, Tiancheng Zhao, Amy Pavel, Maxine Eskenazi and Jeffrey Bigham, *Investigating Evaluation of Open-Domain Dialogue Systems With Human Generated Multiple References*, SIGDIAL 2019
- **Prakhar Gupta**, Gaurush Hiranandani, Harvineet Singh, Branislav Kveton, Zheng Wen, Iftikhar Burhanuddin *Cascade Linear Submodular Bandits: Accounting for Position Bias and Diversity in Online Learning to Rank*, (UAI 2019)
- **Prakhar Gupta**, Shubh Gupta, Ajaykrishnan Jayagopal, Sourav Pal, Ritwik Sinha, *Saliency Prediction for Mobile User Interfaces*, In 2018 IEEE Winter Conference on Applications of Computer Vision (WACV 2018)
- **Prakhar Gupta**, Sandeep Kumar, Kokil Jaidka. *Summarizing Customer Reviews through Aspects and Contexts*, in International Conference on Intelligent Text Processing and Computational Linguistics, (CICLing 2015)

TEACHING AND RESPONSIBILITIES

INTERNSHIP MENTOR - Mentored multiple students at Adobe Research over their summers research internships.

TUTORING - Facilitated hour-long interactive tutorials with group of 30 students for Data Structures course.

COORDINATOR OF MOBILE APPLICATION DEVELOPMENT GROUP at IIT Roorkee.