



Mrinal Kanti Das

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Research Interests

- Bayesian Deep Learning
- Privacy Aware Learning
- Bayesian Nonparametrics
- Text analytics

Brief Summary of Research

Mrinal Das works in the area of machine learning and applications. His main pattern of research is to build mathematical models, develop efficient algorithms and apply them to solve some real life problems. He has publications in top notch venues such as ICML, AAAI, ICDM, WSDM, CIKM. His area of applications is wide: from news/blogs to fashion, and biology.

He has expertise in Bayesian models, unsupervised learning such as clustering, pattern extraction. Some of his major achievements are: (i) to develop efficient methods to discover subtle patterns from data, (ii) to build scalable algorithms to process massive text datasets using small computers, (iii) to develop an efficient mechanism to preserve privacy of individuals in the field of precision medicine.

Although deep learning has been very popular, but fail to solve analytical tasks. One key research direction for him is marry Bayesian methodologies with deep learning to extract advantage of both.

Recent Publications

- Weight-Agnostic Hierarchical Stick-Breaking Process. **Mrinal Das**, Chiranjib Bhattacharyya. IEEE International Conference on Big Knowledge (**ICBK**), 2018.
- Efficient differentially private learning improves drug sensitivity prediction. Antti Honkela*, **Mrinal Das***, Arttu Nieminen, Onur Dikmen, Samuel Kaski. Biology Direct, 2018. (* These authors contributed equally to this work).
- SOPER: Discovering the influence of fashion and the many faces of User from Session logs using Stick Breaking Process. Lucky Dhakad, **Mrinal Das**, Chiranjib Bhattacharyya, Samik Datta, Mihir Kale, Vivek Mehta. International Conference on Information and Knowledge Management (**CIKM**), 2017.
- Ordered Stick-Breaking Prior for Sequential MCMC Inference of Bayesian Nonparametric Models. **Mrinal Das**, Trapit Bansal, Chiranjib Bhattacharyya. International Conference on Machine Learning (**ICML**), 2015.
- Content Driven User Profiling for Comment-Worthy Recommendations of News and Blog Articles. Trapit Bansal, **Mrinal Das**, Chiranjib Bhattacharyya. The ACM Conference Series on Recommender Systems (**RecSys**), 2015.