

Meet P. Vadera

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Education

2017-Present	University of Massachusetts Amherst	MS/PhD (Computer Science)	GPA: 4.0/4.0
2012-2016	Indian Institute of Technology Gandhinagar	B.Tech. (Mechanical Engineering)*	GPA: 8.29/10

*Minor in Computer Science and Engineering.

Select Publications

- **Vadera M.**, Jalaian B., and Marlin, B. Generalized Bayesian Posterior Expectation Distillation for Deep Neural Networks. In *UAI (2020)*
- **Vadera M.**, Cobb A., Jalaian B., and Marlin B. URSABench: Comprehensive Benchmarking of Approximate Bayesian Inference Methods for Deep Neural Networks. In *ICML Workshop on Uncertainty & Robustness in Deep Learning (2020)*
- **Vadera M.**, Shukla S., Jalaian B., and Marlin B. Assessing the Adversarial Robustness of Monte Carlo and Distillation Methods for Deep Bayesian Neural Network Classification. In *AAAI Workshop on SafeAI (2020)*
- Holtsclaw C., **Vadera M.**, and Marlin, B. Towards Joint Segmentation and Active Learning for Block-Structured Data Streams. In *KDD Workshop on Data Collection, Curation, and Labeling (DCCL) for Mining and Learning (2019)* (Best Paper Award)
- **Vadera M.**, and Marlin, B. Assessing the Robustness of Bayesian Dark Knowledge to Posterior Uncertainty. In *ICML Workshop on Uncertainty & Robustness in Deep Learning (2019)*

Work Experience

IBM Research (MIT-IBM Watson AI Lab)

Research Intern

June '20- Present

- Working on improve loss-calibrated inference for Bayesian neural networks. The goal is to improve decision making on downstream tasks by better accounting for decision utilities through our methods.

Kronos Inc.

Data Science Intern

June '18- August '18

- Developed deep learning models to automatically predict late-edit risk in timecards. This leads to significant time saving for managers involved in time-keeping task due to automated sorting of high-edit-risk timecards
- Created automatic punch labeling system using deep learning consistent with the existing rule based system. This provides an alternate to the more complicated system for accelerating internal research studies
- Worked on an independent R&D project to develop neural network based models for volume forecaster at parity with existing production models

Innovaccer Inc.

Member of Technical Staff

June '16- July '17

- Worked on Big data stack for developing *Datashop*- the company's flagship product
- Designed the software architecture, and developed modules of Data Quality Tool and Healthcare measures computation as core modules for the platform. This helped clients build and run a large set of measures through a plug-and-play framework

Technical Skills

Python, Scala, C, MATLAB, R, PyTorch, Keras, Weka, Apache Spark, MySQL, Elasticsearch, MongoDB

Awards

- NSF travel award to attend IEEE/ACM CHASE '19.
- Best paper award at KDD '19 Workshop on Data Collection, Curation, and Labeling (DCCL) for Mining and Learning.