Saurabh Mathur

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Education

Present	**Ph.D.** in Computer Science University of Texas at Dallas, Advisor: Sriraam Natarajan
May 2020	**M.S.** in Computer Science Indiana University, Bloomington, Advisor: David Crandall Thesis: *Bayesian Uncertainty Estimation for Deep Neural Networks*
April 2018	**B.Tech.** in Information Technology Vellore Institute of Technology, Advisor: Daphne Lopez Project: *Image Caption Generation System*

Research Experience

May 2019 – August 2019	**R&D Intern** Synopsys, Mountain View Project: *Neural Machine Translation System to generate verilog assertions*
January 2019 – May 2019	**Research Assistant** for Prof. Roni Khardon Indiana University, Bloomington Project: *Bayesian topic models for a dataset of 94,000 geotagged Irish folk-tales*
May 2016 – July 2016	**R&D Intern** Microsoft Technology Center, Bengaluru Project: *Matrix factorization based movie Recommendation system*

Teaching Experience

September 2020 – Current	**Graduate Teaching Assistant** University of Texas, Dallas Courses: *Introduction to Machine Learning, Machine Learning*
January 2019 – May 2020	**Associate Instructor** Indiana University, Bloomington Courses: *Image Processing, Elements of AI, Computer Vision*

Publications

- Mathur S, Lopez D. A scaled-down neural conversational model for chatbots. *Concurrency and Computation: Practice and Experience*
- P Karthik, M Saurabh, U Chandrasekhar. Classification of text documents using association rule mining with critical relative support based pruning. *Proceedings of ICACCI, 2016*
- U Chandrasekhar, S Mathur. Decision Making Using Fuzzy Soft Set Inference System. *Proceedings of ISBCC, 2016*

Projects

- **Semantic and Instance Segmentation**. Deep image segmentation methods for robot navigation.
- **Speech to Text Engine**. Deep learning based end-to-end speech recognition system.
- **Clickbait Detector**. Deep text classifier to tag clickbait headlines on social-media.
- **Optical Character Recognition System**. Bayesian unigram model and Hidden Markov Model.
- **VITacademics**. Node.js server to aggregate academic metrics.