

Anik Saha

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EDUCATION

- **Rensselaer Polytechnic Institute** **Troy, NY**
M.S. Electrical Engineering; GPA: 3.79/4 *Aug 2017 - Aug 2023*
 - Thesis: Neural Models for Causal Information Extraction using Domain Adaptation
 - Relevant Coursework: Deep Learning, Computational Optimization, Machine Learning, Natural Language Processing, Time Series Analysis, Data Analytics, Machine Learning and Optimization
- **Bangladesh University of Engineering and Technology** **Dhaka, Bangladesh**
B.S. Electrical and Electronic Engineering; GPA: 3.90/4 *Sep 2010 - Sep 2015*

SKILLS

Deep Learning Frameworks: PyTorch, TensorFlow

Machine Learning Tools: NumPy, SciPy, scikit-learn, NLTK, CoreNLP, spaCy, Gensim

EXPERIENCE

- **ImmersiveTouch Inc.** **Chicago, IL**
AI Engineer Trainee *Nov 2023 - Present*
 - Implemented a facial bone segmentation model to significantly reduce manual annotation time.
 - Developed a fast and accurate landmark localization model predicting 28 anatomical landmarks.
- **IBM Research** **Yorktown Heights, NY**
Research Extern *Summers 2021; 2022*
 - Improved domain adaptation performance of neural models for causal information extraction from text.
 - Implemented span-based and sequence-tagging models for causality extraction leading to 1st position in the Fincausal Challenge 2022.
Research Intern *Summer 2020*
 - Improved performance of LayoutLM by 5% by training the model to predict 2D coordinates of textual fields.
 - Published the layout-aware document understanding model in KDD Document Intelligence Workshop 2022.
- **Rensselaer Polytechnic Institute** **Troy, NY**
Research Assistant *Jan 2019 - Aug 2023*
 - Developed a novel knowledge distillation method from BERT to multi-sense word embeddings that improved the ARI score in the word sense induction task by 25% to 125% compared to the state-of-the-art.
 - Conducted extensive experiments to develop a strong baseline for sequence-tagging and span-based pretrained LLMs on the causal information extraction task in 4 data sets from different domains.
 - Integrated linguistic information in domain adaptation for large language models on the causal information extraction task leading to 5% to 25% improvement compared to the DANN model.
Teaching Assistant *Aug 2017 - Dec 2018*
 - Held office hours, developed assignment solutions and graded assignments for Electric Circuits, Digital Electronics and Introductory Machine Learning courses with classes ranging from 40 to 80 students.
- **Semion Inc.** **Dhaka, Bangladesh**
Machine Learning Researcher *Sep 2016 - Jul 2017*
 - Developed LSTM models with hierarchical structures for sentiment analysis of large documents.
 - Utilized distributed computing techniques to speed up training in multiple nodes of a supercomputer.
- **Daffodil International University** **Dhaka, Bangladesh**
Lecturer, Department of Electrical and Electronic Engineering *May 2016 - Aug 2016*
 - Prepared assignments, exams and delivered lectures for undergraduate courses on Introductory Computer Programming, Analog Electronics and Electric Machines.