

SAURABH BALASAHEB MOHITE

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EDUCATION

Ph.D., Transportation Engineering & Civil Infrastructure Systems, University of Delaware, Newark, DE, US
Aug 2023 - Present

Master of Computer Science, Arizona State University, Tempe, AZ, US
Aug 2021 - May 2023

Bachelor of Technology in Computer Science, VIT University, Vellore, TN, IN
2017 - 2021

SKILLS

Languages Python, Java, Javascript, C++, C, PERL & SQL.

Frameworks & tools PyTorch, TensorFlow, Keras, GitHub & AWS

- Proficient in programming, optimization, algorithms, data structures & data science.
- Skilled in building and evaluating deep learning models using PyTorch, TensorFlow, and Keras. Experience in working with open-source models from platforms like HuggingFace or GitHub

PROJECTS

Transformation Driven Visual Reasoning. (September 2021 - November 2021) Developed a visual language reasoning model using state graph generation, graph embeddings using the Weisfeiler-Lehman link prediction algorithm, and neural networks to predict the changes made to the initial environment. Suppose in an image with multiple objects there is a white ball and then it was painted black, then the model will predict that the ball's color was changed from white to black. ([GitHub](#))

Stance Detection. (August 2022 - December 2022) Developed supervised (BERT) and unsupervised (k-means, DBSCAN) models to predict the stance of the sentences with respect to a particular topic. Used data augmentation – back-translation, paraphrasers, etc. for data augmentation. ([GitHub](#))

PUBLICATIONS

- Balamurugan, R., Mohite, S., & Raja, S. P. (2023). Protein Sequence Classification Using Bidirectional Encoder Representations from Transformers (BERT) Approach. SN Computer Science, 4(5), 481.

INTERESTS

- Explainable Artificial Intelligence
- Community Resiliency
- Human Mobility
- Graph Neural Networks