Omar Sharif

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Education

Old Dominion University — Norfolk,VA
Ph.D. in Computer Science — *January 2022- Present*

Wayne State University — Detroit, MI
Ph.D. in Computer Science — *September 2020- Transferred*

University of South Dakota — Vermillion, SD
Master of Science in Computer Science — *August 2018- August 2020*

American International University- Bangladesh — Dhaka, Bangladesh
Master of Science in Computer Science — *August 2018- August 2020*

American International University- Bangladesh — Dhaka, Bangladesh
B.S. in Computer Science and Engineering — *May 2010 - April 2015*

Skills

Programming languages: Python, C/C++, Java, HTML/CSS, LaTeX
Tools & API's: Pytorch, Tensorflow, Keras, numpy, scikit-learn, pandas, OpenCV
Technologies and Platforms: Anaconda, Visual Studio Code, Jupyter Notebook, Google Colab, Code Server, Git, Eclipse, Code Blocks, Shell scripting, Slurm scripting
Operating Systems : Windows, Linux *(Ubuntu)*, MAC OS X.

Expertise and Projects

SAWTab: Smoothed Adaptive Weighting for Tabular Data in Semi-Supervised Learning. | *PAKDD* 2024
- A new weighting approach to generate pseudo labels of minority classes for tabular data using semi-supervised learning Link
- Explore and study the state-of-the-art deep learning models related to class imbalance and analyze the challenges of applying such models to tabular datasets.

A Literature Review on Emotion Recognition using various methods. | *Publication* 2017
- Literature review of recent developments on deep learning approaches in Emotion Recognition task. Link

Lung symmetry analysis for pulmonary abnormality detection. | *Tensorflow, Scikit-Learn, openCV* 2020
- Analysis and comparison of image processing and deep learning models of feature extraction and matching to detect similarities within both lungs for diseases.

Blood Glucose Prediction using Continuous Glucose Monitoring data Ongoing
- Exploration of the state-of-the-art deep learning models on blood glucose prediction of diabetes patients and analysis the challenges of recent approaches.

Experience

Graduate Teaching Assistant and Ph.D. Researcher — Old Dominion University
Department of Computer Science — *January 2022 – Present*
- Lab instructor of JAVA/C++ based problem-solving with programming courses.
- Instruct and help students learn programming concepts and demonstrate code examples.
- Project on deep learning approaches to address the class imbalance of tabular datasets.
- Project on Deep Learning Methods of Blood Glucose Prediction using Continuous Glucose Monitoring data

Graduate Research Assistant — Wayne State University
Department of Computer Science — *September 2020 – August 2021*
- Project on cancer classification on nuclei features from histopathological images.

Graduate Teaching Assistant — University of South Dakota
Department of Computer Science — *August 2018 – December 2019*
- Worked with Parallax Activity Bot 360 (maze solving, parking).
- Worked with E-Z Robot named JD. Performed several tasks like face detection, speech recognition, and Cognitive Vision.