Shaif Chowdhury

Computer Science PHD student looking for impactful work in AI research.

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EXPERIENCE

Baylor University, TX, USA — Research Assistant, Aug 2020 - PRESENT

Active Learning using contrastive sampling for Underwater Images.

Classification of Aquatic Species (TPWD grant): Research on data imbalance in Convolutional Neural Network classification models. Video based Recognition of Aquatic Invasive Species Larvae using Attention-LSTM Transformer.

Created Cloud Computing service to manage and deploy Deep Learning models using Python Flask + REACT and AWS Sagemaker.

Gene Weaver: Worked on a Python Flask based project.

AI Camp, Palo Alto, CA, USA- Data Scientist, May 2023-July 2023 (Presently Working)

Worked Edtech projects : Deployed Computer Vision models using Hugging Face, Roboflow, Pytorch, Python Flask. Led student projects as an instructor.

Tweetsy.io SaaS (Remote, USA): Software Engineer, Dec 2021-Aug 2022

Product Development: Collaboration with the team for backend for popular Tweet searching, AI based Paraphrasing and Tweet Scheduling, Used Spring Boot over AWS EC2 for backend, Pytorch model on AWS Sagemaker for, MongoDB for Database.

Rochester Inst of Tech, NY, USA- Research Assistant, Aug 2019-June 2020

Worked on SLAM Loop Closure. Developed Deep learning Model for Unsupervised Hashing.

PROJECTS

CS Dept: Automated info Timeline
CS Department Event management App: Used Spring Backend, REACT Frontend with WebSocket for live tweets, REST API, Mongo Database, Junit Testing.

Mayo Clinic Stroke Classification (Bronze Medal top 10% on Kaggle)
NN based model to predict blood clot type.

Vehicle Recognition
Computer Vision: Vehicle Recognition using cascade classifier and neural networks.

Financial Data Science Project
EU Option price prediction using Black Scholes. Stock price analysis on HFT data.

SKILLS

Skills: Data Science, Computer Vision, Deep Learning, NLP, Quantitative Research, Statistics, Agile, Programming
Courses: Algorithms, Database, Data Mining, Machine Learning,
OS: GNU/Linux, RHEL.
Language: Java, Python, C++, JavaScript
Framework: Spring,AWS EC2, Amplify,Sagemaker,OpenCV,PySpark,Keras TensorFlow, NumPy,Flask, SkLearn, Pytorch, Huggingface
Database: MongoDB, SQL.
Others: Microservices,Git,Hg, Docker,CI/CD, Hadoop, Rest API.

EDUCATION

Computer Science PHD: Baylor University (TX, USA)
Aug 2020-2025, PHD Computer Science.
B. Tech in IT: IEM, Kolkata (India)
Aug 2013 - July 2017

PUBLICATION

Recognition of Aquatic Invasive Species Larvae using Autoencoder-based Feature Averaging; (Grad travel award) in International Symposium on Visual Computing (CA, USA)

Vehicle detection and counting using haar feature-based classifier; in IEEE Annual Industrial Automation and Electromechanical Engineering Conference (ASIA) **(50+ citation)**

Traffic Surveillance Using Image Recognition on Distributed Platforms; in International Journal of Science and Research (IJSR)