

# Kazi Tanvir Islam

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## EDUCATION

### University of Arkansas at Little Rock

Master's in Computer Science **GPA: 3.67/4.00**

Research Area: Machine Learning, Natural Language Processing, Deep Learning

Little Rock, AR  
Jan 2021 - Dec 2022

### Khulna University of Engineering & Technology

B.Sc. in Electronics and Communication Engineering

Khulna, BD  
April 2015 - Apr 2019

## PROFESSIONAL EXPERIENCE

### COSMOS Research Center

Data Scientist – Research Assistant

Little Rock, AR  
Jan 2022 - Present

- Working on an NSF funded project to develop machine learning model for refugee estimation
- Manually collecting, curating data for 200 countries, and performing exploratory data analysis (**Python, Pandas, Matplotlib**)
- Orchestrated 34 features for refugee-estimation model across 3 categories by feature engineering (**Python, Sklearn, SQL**)
- Executing a Machine Learning model to characterize YouTube video based on content, behavior, platform

### University of Arkansas at Little Rock

Research & Teaching Assistant

Little Rock, AR  
Jan 2021 - Dec 2021

- Investigated 50+ object detection datasets to better understand the feature engineering & Convolutional Neural Network
- Implemented an Object Detection model to deploy on edge devices. Achieved 88% accuracy on training (**TensorFlow, Keras, Sklearn, NumPy**)
- Tuned the hyperparameters of the network, successfully implemented image data augmentation (**CNN, AutoML**)
- Analyzed the limitations of edge devices to improve latency and accuracy of the model by 5%
- Oversaw 60+ junior students, and accelerated their performance on Operating System & Computer Literacy (**Java, SQL, C++, Git**)

### Robi Axiata Ltd.

Network Engineer

Dhaka, BD  
Feb 2020 - Dec 2020

- Managed a team of 10 Assistant Engineer to migrate from UMTS Technology to LTE Technology
- Resolved bugs in network that directly influenced 30 million subscribers' customer experience

## PROJECTS

### Breast Cancer Classification ([GitHub](#))

- Transformed four ML algorithms such as SVMs, DTC, K-NN, Random forests to develop a Hard Voting meta-classifier, which classified tumor with 99.42% accuracy. (**Python, Pandas, Scikit-learn, Naïve Bayes, Random Forests, Logistic Regression**)

### Self-Driving Car ([GitHub](#))

- Developed an AI enabled robust car prototype based on raspberry-pi, sonar, and camera. Manually collected & processed video (**Deep Learning, TensorFlow**)
- Deployed its learning mechanism using deep learning with convolutional neural networks. Completed trip 90% of time (**OpenCV**)

### Event-Booking web application using a GraphQL API (**GraphQL, MongoDB, Node.js, React**)

- Architected and deployed a GraphQL web API where users could book concerts and events online
- Programmed the backend by adopting MongoDB and Node.js to establish the schema
- Recommended the use of NoSQL MongoDB, which enhances the API design more flexible and improves efficiency by 2 times

### Text Sentiment Classifier

- Created a model that identifies the appropriate emotion associated with short text snippets of less than 50 words.
- The model is a recurrent neural network that picks & assigns an emoji with the matching emotion to the given text input.

## LEADERSHIP

### Cyber-Security Gym, UALR

Engineering Leader

Little Rock, AR

- Organized 2 workshops for 100+ undergraduate students to create awareness about cyber-security
- Advocated 50+ undergraduate students to sharpen their programming skills, presentation skill & social skills.

## Certificates

- **Machine Learning Engineering for Production (MLOps)** Specialization (4 months) – DeepLearning.ai via Coursera
- **Deep Learning Specialization** (5 months) -- DeepLearning.ai via Coursera
- **Machine Learning, Data Science and Deep Learning with Python** (1 month) – Udemy
- **Serious SQL – Data with Danny** (2 months)

## SKILLS

**Programming Languages:** Python, SQL, Java, C++, HTML, CSS

**Framework & Tools:** TensorFlow, Keras, PyTorch, Pandas, NumPy, Scikit-learn, Seaborn, NLTK, Git, Google Cloud Platform, Docker

**Relevant Courses:** Data Structures, Algorithms, Machine Learning, Database Management, Operating Systems, Telecom & Networking, Software Engineering, Digital Image Processing, Statistics