

# Md Romyull Islam

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## TECHNICAL SKILLS

- Programming Language: Python, R, C
- Database: SQL
- Framework and Library: TensorFlow, NumPy, Pandas, Scikit-Learn, Matplotlib, OpenCV, NLTK, Keras, PySpark
- Platforms and Clouds: Google Colab, Amazon SageMaker
- Version Control: Git

## PROFESSIONAL DEVELOPMENT

### Training and Certifications

- *Coursera: Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning* February, 2020
- *ICT Division, Bangladesh (Hypertag): FTFL Artificial Intelligence* May, 2020
- *Coursera: IBM, What is Data Science?* February, 2020
- *365 Data Science: SQL + Tableau* April, 2020

## PROFESSIONAL EXPERIENCE

**Austin Peay State University** **Clarksville, Tennessee**  
*Graduate Research and Teaching Assistant,* August 2021 – Present

- Cleaned, analyzed, and processed data and applied various machine learning algorithms.
- Provided appropriate documentation for research and prepare visuals to aid a successful publication.
- Graded homework, projects, quizzes and exams and maintained records of grades under the supervision of course instructor.
- Course covered “Predictive analytics”

**Daffodil International University** **Dhaka, Bangladesh**  
*Teaching Assistant,* September 2018 – December 2018

- Supported teacher in the development of review materials for students.
- Assisted in lab work and course project supervision and graded homework, projects.

### Projects

**Austin Peay State University Projects** **Present**  
*Crypto Forecasting (Kaggle Competition)*

- Analyzing high frequency real crypto data to predict future 3 month’s rate using machine learning techniques and to achieve high accuracy.

*Application of machine learning models to Predict Tropospheric Ozone in a Semi-Arid Climate Region* November, 2021

- Compared various ML models (Naive Bayes, KNN, Decision Tree, SGD, XGboost)
- Made a model combining all the models using ensemble technique which gave up to 94 percent accuracy.

### Personal Projects

*Local Birds Classification Using CNN Algorithm* July, 2019

- Used Transfer Learning technique (pretrained model “MobileNet”) to classify local birds of Bangladesh and it could detect 95 percent accurately.

*Classification of Audio using Deep Learning Algorithm* January, 2022

- Multiple DL model used to detect voice from its frequency and deployed an application on Heroku.

### Professional Organizations

*National Society of Black Engineers – NSBE (Collegiate APEX)*

- Active member

*Data Science Association*

- Member

## SCHOLARSHIP

*Sonali Bank Merit Scholarship, 15000 BDT* January 2014

## EDUCATION

**Masters in Computer Science and Quantitative Methods** **Cumulative GPA: 4.0/4.0**  
*Austin Peay State University* *Expected Graduation: May 2023*

**Bachelor of Science in Computer Science and Engineering** **Cumulative GPA: 3.65/4.0**  
*Daffodil International University* *Graduation: June 2019*

## EXTRA-CURRICULAR ACTIVITIES & INTERESTS

**General Secretary:** DIU Brahmanbaria Forum June 2018 – June 2020

**Volunteer:** UNICEF Bangladesh December 2019 – July 2021

**Interests:** Exploring places and maps, Travelling, Ensuring food safety for disadvantaged communities.