Md Romyull Islam

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TECHNICAL SKILLS

- Programming Language: Python, R, C
- Database: SQL, MySQL
- Framework and Library: TensorFlow, NumPy, Pandas, Scikit-Learn, Matplotlib, OpenCV, NLTK, Keras, PySpark
- Platforms and Clouds: Google Colab, Amazon SageMaker
- Version Control: Git
- Statistical and **Data Analytics** Concepts: Regression, Probabilities, Time Series Analysis, Data Visualization
- **Machine Learning:** Random Forest, Decision Trees, Gradient Descent, Support Vector Machine, Computer vision, Natural language Processing, Convolutional Neural Network, Recurrent neural network.

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 the course instructor.
- Supervised the project of 30 students of the "Predictive analytics" course.

Mayalogy Digital Health Pte. Ltd   **Dhaka, Bangladesh**

Machine Learning Intern,   *February 2021 – July 2021*

- Worked with machine learning engineer team to build AI-powered System.
- Labeled, Cleaned duplicate or incomplete research medical query data before data analysis.
- Used multi-label classification technique to make sure all the questions reach the proper physicist for a suggestion
- The model reached up to 85% accuracy and we could have made a fully automated medical support system.

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, graded homework, and supervised projects of 40 students.

PROFESSIONAL TRAINING AND CERTIFICATIONS

- *Coursera: Introduction to **TensorFlow** for Artificial Intelligence, **Machine Learning, and Deep Learning**   Feb, 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*

RELEVANT PROJECTS

Austin Peay State University Projects

Crypto Forecasting (Kaggle Competition)   *Present*

- 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 such as voting classifier
- Achieved up to 94 percent accuracy using Soft Voting technique.

Personal Projects

Local Birds Classification Using CNN Algorithm   *July, 2019*

- Used Transfer Learning technique (pretrained model "MobileNet") to classify local birds of Bangladesh
- Applied this model with the help of Keras and TensorFlow in background
- Enhanced the performance by "data augmentation", "resizing", and using additional "layers"
- The model could detect 95 percent accurately.

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

- Multiple Deep Learning models used to detect voice from its frequency and to get best performed model
- Utilized "librosa" library for audio preprocess and "LSTM" for creating Recurrent Neural Network.
- Deployed an application on Heroku.

Professional Organizations

Member, National Society of Black Engineers – NSBE (Collegiate APEX)

Member, Data Science Association

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.