OFM RIAZ RAHMAN ARANYA

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RESEARCH INTEREST

Machine learning & AI | Image Segmentation | Deep learning | Medical Image Analysis | Computer Vision

EDUCATION

PhD(Ongoing) - Computer Science   **2023 - Present**
University of Texas at San Antonio
Current CGPA: **4.00** (scale: 4.00)

B.Sc. - Computer Science and Engineering   **2016 - 2020**
Khulna University of Engineering & Technology - Khulna, Bangladesh
CGPA: **3.28** (scale: 4.00)
Last four semester average GPA: **3.44**

Higher Secondary Certificate - Science   **2015**
Govt. MM College - Jashore, Bangladesh
GPA: **5.00** (scale: 5.00)

Secondary School Certificate - Science   **2013**
Jashore Zilla School - Jashore, Bangladesh
GPA: **5.00** (scale: 5.00)

RESEARCH & PUBLICATIONS

Saha, P., Sadi, M. S., **Aranya, O. R. R.**, Jahan, S., and Islam, F.-A. (2021). Cov-vgx: **2021**
An automated covid-19 detection system using x-ray images and transfer learning.
Informatics in Medicine Unlocked, 26:100741.
Link: https://doi.org/10.1016/j.imu.2021.100741
Status: Accepted and Published, Publisher: **Elsevier**

S. Das, **O. F. M. R. R. Aranya** and N. N. Labiba, "Brain Tumor Classification Using   **2019**
Convolutional Neural Network," 2019 1st International Conference on Advances
in Science, Engineering and Robotics Technology (ICASERT), 2019, pp. 1-5, doi:
10.1109/ICASERT.2019.8934603.
Link: https://doi.org/10.1109/ICASERT.2019.8934603
Status: Accepted and Published, Publisher: **IEEE**

WORK EXPERIENCE

Graduate Teaching Assistant   **Aug 2023 - Present**
Department of Computer Science
University of Texas at San Antonio

Software Engineer   **Mar 2023 - Jul 2023**
RedDot Digital Ltd, Dhaka, Bangladesh
Design solution architure and develop APIs.

Jr. Software Engineer   **Dec 2020 - Feb 2023**
Nascenia Ltd, Dhaka, Bangladesh
Working with the web development team as a full stake developer, Have completed multiple projects, Design
solution architecture, Mentor juniors.

ICT Instructor   2018 - 2020
OXYGEN Academy, Khulna, Bangladesh
Teach basics of C programming, HTML, and Database. Gave lectures on particular topics, took exams, evaluated exam sheets, and provided guidelines accordingly.

CONFERENCES

2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)   3-5 May 2019
Conducted by IEEE & East West University, Dhaka, Bangladesh

PROJECTS

Recommendation system   2021 - Ongoing
Tool: Ruby on Rails, JavaScript, JQuery, MySQL

A recommendation system that allows beneficiaries to select a problem with multiple causes, then recommend probable solutions actions to execute to solve that problem.
- Developed multiple features and fix bugs in the application
- Built APIs and test performance of APIs using JMeter
- Optimizing the performance to support many users simultaneously

Company Digitization   2022
Tool: Ruby on Rails, JavaScript, JQuery, MySQL

An construction company. They needed an application to maintain their clients and projects.A solution called is developed to fulfil their requirements.
- Developed multiple features in the application
- Contribute to design system architecture

Online Collaboration   2022
Tool: Ruby on Rails, JavaScript, JQuery, MySQL

Online collaboration is a platform where different companies' employees can ask and answer questions. There is a voting system for every question and answer. Users gain points by getting up-vote, down-vote, and accepted answers to their questions and answers. There are blog sections where users can post any blog and comment. The owner of the post can set those posts' visibility status.
- Complete application is developed by single-handedly

Project Link: https://github.com/aranya059/online-collaboration

A Smart Voice Control Wheel Chair   2018
Tool: Raspberry Pi, Python

A smart wheel chair which is controlled by human voice through smartphone. Here human voice is converted to text by using a smartphone application. The application sends text data to Raspberry PI which is attached to wheelchair for controlling the movement.

Ninja Runner (Game)   2020
Tool: Unity3D, C#

An endless runner run avoiding collisions with obstacle and collect points for each successful passing of obstacle.
Project Link: https://github.com/aranya059/Ninja-Runner

Student Contact Information Application (APK)   2017
Tool: Android Studio

An android applications of contact informations of KUET CSE 2k15.

SKILLS

Python   PyTorch   TensorFlow   Deep Learning   CNN   Image Processing   Ruby on Rails   JavaScript   Bootstrap   Git   MySQL   C   C++   Ruby   HTML   CSS

TOOLS

Jupyter Notebook | PyCharm | Spyder | RubyMine | CodeBlocks | VS Code | Visual Studio | JMeter | Unity | Windows | Ubuntu

ONLINE COURSES

Convolutional Neural Networks in TensorFlow **Online non-credit course authorized by DeepLearning.AI and offered through Coursera** Credential: KDRMJ5QX35E8	**2020**
Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning **Online non-credit course authorized by DeepLearning.AI and offered through Coursera** Credential: J4PPD27ZW5PM	**2020**
Programming for Everybody (Getting Started with Python) **Online non-credit course authorized by University of Michigan and offered through Coursera** Credential: JCUDJV9RN8FV	**2020**

CO- CURRICULUM ACTIVITIES

Bangladesh Student Association at UTSA ● Treasurer 2024 — 2025	**2024 - 2025**
Jashore Association of KUET ● Vice President 2019 — 2020 ● General Secretary 2018 — 2019	**2018 - 2020**
HACK - Hardware Acceleration Club of KUET ● General Secretary 2019 — 2020	**2019 - 2020**
Dream (Voluntary Blood Donation Society of KUET) ● Assistant General Secretary 2019 — 2020 ● Assistant Publicity Secretary 2018 — 2019 ● Member 2017 — 2018	**2017 - 2020**
OKS – Organization of KUET Sports ● Executive Member 2019 — 2020	**2019 - 2020**

● Participated in Inter University Athletes & Badminton Tournament-2020 at Rajshahi University as a representative of KUET athletes' team

ACHIEVEMENTS

● One published articles was linked to the United Nations Sustainable Development Goals (**SDG 3: Ensure healthy lives and promote well-being for all at all ages**), helping to tackle some of the world's greatest challenges.

● **1st Runner Up** in LICT Project Showcasing Jashore IT park, 2019
● Board **Scholarship** (General) form Jashore Board, 2015
● **Champion** on High Jump KUET 2020
● **Champion** on High Jump KUET 2019
● **2nd Runner up** on Long Jump KUET 2019
● **2nd Runner up** on Hoff Step and Jump KUET 2017
● **Runner up** Inter Batch Football Tournament, 2016
● **Champion** Intra Batch Football Tournament, 2017