

KAZI HASAN IBN ARIF

Machine Learning Engineer and Prospective Graduate Student

Dhaka-1000, Bangladesh

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RESEARCH INTEREST

- Deep Learning
- Medical Computer Vision
- 3D Imaging in Radiology
- Human Computer Interaction

RESEARCH EXPERIENCE

- 1. Generate 3D Bone from DICOM using Deep CNN** **2022**
Supervised by Dr. Mahmuda Naznin (BUET) *Undergraduate Thesis*
 - We proposed a deep CNN based approach that can segment 3D bone from radiology image
- 2. Hybrid Deep Learning Model for Bangla Parts of Speech Tagging** **2021**
2nd International Conference for Emerging Technology *Co-Author*
 - Paper Link: [🔗](#)
We exploited textual data and long term word dependencies to accurately tag 'Bangla' parts-of-speeches

PROFESSIONAL EXPERIENCE

- Machine Learning Engineer at IQVIA** [🔗](#) **May 2022 – Present**
Responsibilities *Dhaka, Bangladesh*
- Researching and implementing ML algorithms and tools
 - Build and deploy ML framework for pharmaceutical industries

EDUCATION





- Bangladesh University of Engineering and Technology (BUET)** **2017 – 2022**
Computer Science and Engineering - CGPA - 3.39/4.00 (3.89 in final year) *Dhaka, Bangladesh*

TECHNICAL SKILLS



Languages: C, C++, Java, Python, JavaScript, Shell
Framework: Node, React, Pytorch, JavaFX, Git, OpenGL
Database: Oracle, PostgreSQL, MongoDB
Technology: Linux, Docker, kubeflow,

PROJECTS

- Police Department Automation** | [🔗 Link](#) | React.js, Node.js, MongoDB **2021**
 - A web-app that can manage workflow for Police Department, show various analytical data visually and basic HR management
- Smartphone Price Predictor in Bangladesh** | [🔗 Link](#) | Python, scikit-learn **2021**
 - Scrapped dataset from popular mobile website for mobile-phone, Rigorous preprocessing of data, Trained and compared between few algorithms
- Computer Graphics: Rasterization and Ray Tracing** | [🔗 Link](#) | OpenGL library, C++ **2021**
 - Implemented Phong illumination and multi level recursive ray tracing to generate realistic scene

Lines of Action Game  Link Java, JavaFX	2020
• Developed a heuristic for AI based board game, GUI using JavaFX	
CPP Compiler  Link Yacc, Lex, C	2019
• Developed parsing, tokenizing, semantic analyser and x86 assembly code generator from input C++ code	
Pinterest  Link PostgreSQL, PHP, HTML, CSS	2018
• Developed a website like Pinterest and designed database	
Angry Birds  Link C, iGraphics	2017
• Developed GUI based game using C graphics framework	

EXTRACURRICULAR

Shabash Fakibaj LLC 	2020 – 2021
<i>Campus Ambassador</i>	<i>Dhaka, Bangladesh</i>
• I volunteered and represented this organization in my campus which help undergrad students for pursuing higher studies	
• Participation Certificate 	

AWARD

- Fusemachines AI Fellowship 2022
- University Merit Scholarship (7th Semester)
- Admission Test Scholarship
- Bangladesh Physics Olympiad Divisional (Top 20)