

MD. SAIF AHAMMOD KHAN

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CAREER OBJECTIVE:

As a passionate and dedicated researcher with a strong foundation in Deep Learning, Machine Learning, Robotics, Computer Vision, and Image Processing, I aim to contribute to cutting-edge advancements that bridge the gap between human potential and technological innovation. My goal is to leverage my expertise in these fields to create intelligent systems that enhance automation, solve complex real-world problems, and drive the future of AI-powered solutions. Through continuous learning and research, I aspire to make impactful contributions in academia and industry, shaping the next wave of innovation in artificial intelligence and robotics.

EXPERIENCE:

- **Graduate Teaching Assistant**
[North South University](#)
July 2023 - Present
Providing support to faculty members and students in various academic activities, including invigilating exams, evaluating homework assignments, and assisting students with their studies.
- **Android App Developer**
[HOP IN](#)
August 2018 – January 2020
I was responsible for the maintenance and management of the platform's three mobile applications. My duties involved diagnosing and resolving technical issues, debugging, and regularly upgrading the applications to enhance functionality and performance.

EDUCATION:

- **MS in Computer Science & Engineering**
[North South University](#)
January 2023 - Present
CGPA: 3.96 out of 4.00 (21 out of 30 credits completed)
- **BSC in Computer Science & Engineering**
[North South University](#)
May 2017 - December 2021
CGPA: 3.70 out of 4.00 (90% marks)
- **Higher Secondary Certificate (HSC)**
[Rajshahi Education Board Model School and College](#)
03 April, 2016
GPA: 4.33 out of 5.00
- **Secondary School Certificate (SSC)**
[Rajshahi Collegiate School](#)
09 February, 2014
GPA: 5.00 out of 5.00

TECHNICAL SKILL:

Programming Languages	Java, Python, C, C++, SQL, HTML, CSS
Databases	MySQL, Firebase
Version Control	Git
Libraries and Frameworks	Numpy, Pandas, Matplotlib, Tensorflow
Mobile Development	Android Studio
Embedded System	Arduino, Raspberry Pi
Robotics and Automation	ROS2
Circuit Design and Simulation	Fritzing, Gazebo
Design and Prototyping Tools	Adobe (Photoshop, Illustrator, Premiere Pro), Draw.IO
3D Design	Sketch Up

PROJECTS:

- **ADOAVER**
[Senior Design Course Project](#)
AOAVER is an Exploring Robot that can avoid static obstacles and investigate places that humans cannot easily access. It is also capable of detecting a variety of obstacles. (To learn more visit: saifahammod.me/research)
- **Shouhardo**
[Thesis Project](#)
Shouhardo is a platform through which users can access advanced medical information without the assistance of third parties. (To learn more visit: saifahammod.me/research)
- **Assist Senior Citizens And Disabled People By Detecting The Hand Gesture**
[Junior Design Course Project](#)
Assist is an AI based design where it can monitor elderly or disabled people through a camera and detect hand gestures and send feedback to an android app named "Assist" upon the need.. (To learn more visit: saifahammod.me/research)

PUBLICATIONS:

- **Refereed Journal:**
[Alpha N-V2: Shortest Path Finder Automated Delivery Robot with Real-Time Object Detection and Avoiding System.](#)
Vietnam Journal of Computer Science (VJCS), Issue-7, No 4, Nov 2020.
DOI: <https://doi.org/10.1142/S2196888820500219>
- **Book Chapter:**
[Alpha-N: Shortest Path Finder Automated Delivery Robot with Obstacle Detection and Avoiding System.](#)
Asian Conference on Intelligent Information and Database Systems, (pp. 202-213). Springer, Cham.
DOI: <https://doi.org/10.1007/978-3-030-41964-618>
- **Special Publication:**
[Understanding the Healthcare Sector in Bangladesh: Experiences and Services during the COVID-19 Pandemic.](#)
Asian CHI Symposium 2022 Special Publication
ISBN: 978-0-9942763-2-2

RESEARCH INTEREST:

- Artificial Intelligence & Robotics
- Image Processing And Computer Vision

TRAINING:

- **Robotics Workshop**
Organized by NSU ACM Student Chapter
Summer 2018
- **Android Workshop**
Organized by NSU ACM Student Chapter
Summer 2018
- **Workshop on Linux and Unix Operating System**
Organized by NSU ACM Student Chapter
2 November, 2018
- **Drone Making Workshop**
Organized by NSU CEC, & Conducted by Rotor Solution and Thrust

AWARDS & CERTIFICATES:

- **1st Runner Up In Robotics Workshop Based on Performance**
Organized by NSU ACM Student Chapter
Summer 2018
- **1st Runner Up in Robo Soccer**
RoboQuest 1.0 - Intra NSU Robotics Contest
December, 2018
- **Best Active Member Award**
NSU ACM Student Chapter
Summer – 2018
- **2nd Runner Up in Robo Race**
IEEE NSU RAS WWW
October, 2019