

# Bishal Paul

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## Career Objective

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A computer science enthusiast with college project experiences in programming, machine learning, and data analysis looking to apply gained knowledge and skills in a short-term internship role in analytics, data, or research. I'm an adaptable and efficient team player with excellent communication skills at all levels.

## Education

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- ⇒ **American International University-Bangladesh** 2017-2021
  - **BSc (Hons), Computer Science and Engineering (CGPA: 3.19/4.00)**
  - Thesis: Rainfall Prediction in Bangladesh in Machine Learning Approach**
- ⇒ **Moulvibazar Govt College, Moulvibazar** 2014-2017
  - *Higher Secondary Certificate (GPA: 4.00/5.00)*
- ⇒ **Moulvibazar Govt High School, Moulvibazar** 2006-2014
  - *Secondary School certificate (GPA: 4.69/5.00)*

## Technical Skills

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- **Languages** : C++, Java, Python, ASP.NET, PHP.
- **Frameworks** : DOT.NET, Tensorflow, Keras
- **Tools** : Git, Visual Studio, Jupyter Notebook, Visual Studio Code, Proteus, Autocad
- **Soft Skills** : Time Management, Teamwork, Communication, Accountability.

## Work Experience

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- ⇒ **American international University-Bangladesh.**  
**Internship- Working as Teaching Assistant (TA) at AIUB.** 15th Sep – 1st Dec 2021

## Project

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- ⇒ **Home Automation System:** The main objective of this project is to develop a home automation system using an Arduino board with Bluetooth being remotely controlled by any Android OS smartphone. The design comprised an Arduino UNO microcontroller board, Bluetooth module (HC-06), and an android application (MIT App Inventor 2). The system switches the home appliances ON and OFF using the android app.
- ⇒ **Autonomous Fire Fighting Robot:** The fire Fighting robot is our capstone project and our main aim is to develop a microcontroller-based firefighting robot. Gas sensor machines will sense the fire, smoke, and temperature at the site of disaster whereas fighting robots will decrease the need for firefighters to get into dangerous situations.
- ⇒ **Coffee Shop Management Dot.Net:** Coffee Shop Management software system is a system that is used to Maintain the Whole Record of the Coffee Shop link to add Customer Names, addresses, Coffee details, and Coffee Types.
  - 3 User panel. Admin, Employee, User Registration.
  - Retrieved data MS SQL server from Admin data table to Employee table.

- Admin can insert, delete, and update data.
- Employee, and Admin both are working Billing process

⇒ **Brain Tumor Segmentation Computer Vision:** Brain Tumor localization and segmentation from magnetic resonance imaging (MRI) are hard and important tasks for several applications in the field of medical analysis.

- Framework use Tensorflow, and Keras. Developer tools - Jupyter Notebook, Google Colab.
- For the Kaggle Dataset, we use 3064 pictures of 233 patients. These pictures are divided into three categories (meningioma, glioma, and pituitary) The image size is 512\*512.
- The model uses Faster RCNN and Mask RCNN.
- Test Accuracy is 98.8 percent.

⇒ **School Management System:** Our School Management System deals with the various activities related to the students. In the Software, we can register as 3 types, student, Teacher, and Librarian. The administrator has the power to approve new user and can edit and delete a user. A student can register as a user and can add edit and delete his profile. A personal authority of admin to send notice to all the users.

○ **Software requirement:**

Front end : PHP, HTML, CSS, JAVASCRIPT, JSON, AJAX.

Back end : MYSQL server

Tool : Microsoft visual studio

## Extra-Curricular Activities

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- Photography (Member at AIUB photography club).
- Sports such as competing on a team or in a league, hiking, or other exercises.
- Creative arts, including writing, music, painting, and crafts.
- Traveling.

## Research Interest

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- Computer Vision (Image Classification, Neural Network)
- Augmented Reality
- Cryptocurrency
- Quantum Computing

## Languages

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- Bangla (Native), English (International).

## Reference

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MD. SAJID BIN FAISAL

Lecturer

*Internship Supervisor (Organization)*

Department of Computer Science

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