Mohammad Asifur Rahim

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Education

Ahsanullah University of Science and Technology **April 2018-January 2023**
Bachelor of Science in Computer Science ***CGPA:3.872/4.00****(5th out of 150 students)*

Relevant Coursework

Courses: Data Structures, Algorithms, Artificial Intelligence, Pattern Recognition, Soft-Computing, Digital Image Processing, Computer Graphics, Computer Networks

Research Interest

Machine Learning, Deep Learning, Image Processing, Computer Vision, Natural Language Processing

Undergrauate Thesis

Deep Learning Based Method to Predict Plant Diseases: A Case Study With Rice Plant Disease Classification
Supervisor: Prof.Dr.Mohammad Shafiul Alam, Professor, Department of CSE, Ahsanullah University of Science and Technology

Professional Experience

Lecturer, Department Computer Science and Engineering **January 2023-current**
Daffodil International University,Dhaka

Publication

- Nusrat Khan, Md. Hasan Imam Bijoy, Atik Asif Khan Akash,Md. Mizanur Rahman, **Mohammad Asifur Rahim**"Automated Agricultural Pests Identification using Convolutional Neural Network-based Transfer Learning".International Conference on Big Data, IoT and Machine Learning (BIM 2023),2023. Accepted not yet published

Research Based Project

- **Transformation of Real to Cartoon images**

  Generative Adversarial Network(GAN) has been used to generate cartoon images

On Going Research

- **Emperical Text Analysis for Identifying the Genres of Bengali Literary Work**
- **Deep Learning Based Method to Predict Plant Diseases: A Case Study With Rice Plant Disease Classification**
- **Real Time Traffic Vehicle Detection and Counting Using Computer Vision Techniques**
- **Image Steganography Using CNN**

Awards and Acheivments

- Dean's List of Honor(Based on B.Sc Result)
- Tuition Fee Waiver (Based on B.Sc Result)
- Certificate for Paper Presentation at the Conference on Big Data,IoT, and Machine Learning, BIM 2023

Skills

- **Primary Programming language:** C/C++,java,Matlab,Python,Html,CSS
- **Secondary Programming Languages:** C,PHP,JavaScript
- **Machine Learning Frameworks:** TensorFlow,Keras,sci-kit-learn
- **Web Application Frameworks:** ASP.NET,MVC,Bootstrap
- **DatabasesL** Microsoft SQL SERVER, MYSQL, PL/SQL
- **Data Visualization and Analytics:** Matplotlib, Seaborn
- **Tools:** Git, Jupyter Notebook, Visual Studio Code, Visual Studio, CodeBlocks,NetBeans, Arduino, Packet Tracer, Proteus Design Suite, LaTex
- **Soft Skills:** Leadership,Communication, Teamwork,Time Management, Collaboration
- **Language Skills:** Bangla,English

Projects

- **Aero-Fighter**
  I built this game of fighting planes using C and I Graphics.
- **Banking Management System**
  I made this Banking Management desktop-based software using Java as a programming language, Xamp as a database, and NetBeans as an IDE.
- **Automatic Pet Feeder**
  I programmed this Aurdino-based system which will take care of the pet in the absence of the owner. It will be able to feed the pet on set time, manage excreta along maintain a suitable temperature in the room. All these functions will be carried out automatically.
- **Monitor Price Prediction**
  This is a machine learning-based project. Several machine learning algorithms are used to predict the prices of different brands of Monitors.
- **Playing condition prediction using naive bayes** This project is based on a distributed database system where given a certain weather condition the model will predict playing conditions using a Naive-Bayes classifier. Sql+ is used as a database framework. I used a virtual machine to make it a distributed database system.
- **Basic Calculator**
  I built this basic Calculator system using Java as a programming language and NetBeans as IDE.
- **Charity Management system**
  This is a charity-based desktop project. I used Java as the programming language and SQL Server Management Studio as the database.

- **Disease tracker**
  This is an Android-based project where given the symptoms the app can detect the correct disease. I programmed this using Java and the framework I used is Android Studio.

- **Humanitarian-Aid**
  This is a desktop project where people can help each other according to needy people's needs. This has been done using C Sharp and the framework (MVC ASP.Net) is used.

- **Humanitarian Aid**
  This is a charity-based project. I used PHP, HTML, and CSS as the programming language and Xamp as the database. The IDE I used is vs-code.

- **PC Accessories**
  A project using three.js consisting of a CPU and Monitor.

Extra-Curricular Activities

Aust CSE Society **April 2018-January 2023**
Society Representative

OBE Sub Commitee **July 2023-Current**
Member

Problem Solving Skills

- **Leetcode**
  Solved 100+ problems

References

Prof. Dr.Mohammad Shafiul Alam
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