Refat E Ferdous

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About Me

I am an enthusiastic freshly graduated Engineer, intending to pursue my career in an IT company, which leads to flourish my skills in this arena and I am determined to continue this esteemed profession. I am goal oriented and passionate about learning new things. Also, I have excellent communication and leadership skill. Now I am seeking for a challenging position in any IT company where I can get the opportunities to grow my technical as well as managerial skills. Also want to contribute to the company's growth and accomplish excellence through my best efforts.

Scholastic Records

- **Bachelor of Science in Computer Science and Engineering (CSE)**
  Ahsanullah University of Science and Technology (AUST)
  CGPA: 3.15
- **Higher Secondary School Certificate (H.S.C) – Year 2015**
  Rangpur Govt. College, Rangpur
  Passing Year: 2015 (Improvement)
  GPA: 4.70
- **Secondary School Certificate (S.S.C)**
  Rangpur Govt. Girls' High School
  Passing Year: 2012
  GPA: 5.00

Technical Skills

- **Programming Languages:** C, C++, Java, Python, JavaScript, C#
- **Tools:** Code Blocks, NetBeans, Visual Studio, Android Studio, Arduino, MATLAB, Jupyter Notebook, Google Colab, IDLE (Python 3.7), Arduino
- **Frameworks:** Asp.net, Android Studio, MVC
- **Web Development:** HTML, CSS, PHP
- **Database:** MSSQL, MySQL, Oracle (PL/SQL)
- **Computer Skills:** MS Excel, MS Power point, Word, Google Docs, Spreadsheets, Slide, Forms, Google Drive

Professional Experience

- **Lead Manager at Amar iSchool**
  From February 2021 to September, 2021
- **Research Assistant at Pioneer Alpha Limited**
  From June, 2020 to September, 2021

Research Interest

- ❖ Computer Vision, Deep Learning, Machine Learning, Facial Recognition, Digit Recognition, Object Recognition, Image Processing, Artificial Intelligence in Healthcare context

Research Experience

- **Academic Thesis**
  Performance Analysis of MIMO System using V-Blast Architecture
  In our thesis, we worked on MIMO (Multiple Input- Multiple Output) wireless communication system. Our Main target was to build such a model, which can perform efficiently in the presence of noise and interference. Among different types of detection algorithm, we used a famous linear algorithm called MMSE (minimum mean square error) to detect the signals. To remove the high corrosion of detection sequence, further we used a non-linear detection scheme called V-Blast architecture which mainly decode the signals into many sub signals and detect the signal in a recurrent way.

- **Other Publications:**
  1. Md Abdullah Al Nasim, **Refat E Ferdous,** Mahim Anjum Haque Pantho, Atiqul Islam Chowdhury **"A Comparative Analysis on Bangla Handwritten Digit Recognition with Augmentation and non-Augmentation Process",** 2nd international Congress on Human-Computer Interaction, Optimization and Robotic Applications – At Turkey.

  2. Mohammad Sabik Irbaz, Md Abdullah Al Nasim, **Refat E Ferdous**, "**Real-Time Face Recognition System for Remote Employee Tracking**", International Conference on Big Data, IoT and Machine Learning (BIM 2021).

Academic Projects

- ❖ **Snake Game**
  Language: C++, Platform: Visual Studio

- ❖ **Duck Shooter**
  Language: Java, Platform: Eclipse

- ❖ **Hospital Management System**
  Language: Java, Platform: Android Studio

- ❖ **Fantasy Game Prediction System – Database Project**
  Language: Java, Platform: NetBeans, Microsoft SQL Server 2017, Database: MSSQL

- ❖ **Online Shop Management System**
  Language: C#, Platform: Visual Studio, Framework: Asp.Net (MVC), Database: MSSQL

- ❖ **Library Management System**
  Language: C#, Platform: Visual Studio, Framework: Asp.Net, Database: MSSQL

- ❖ **Hotel Management System**
  Language: PHP, Database: MySQL

- ❖ **GSM Controlled Cleaning Car – Hardware Project**
  Platform: Arduino

Certificates

- ❖ **Machine Learning**
  Coursera, Offered by Stanford University

Linguistic Proficiency

- ❖ Bengali
- ❖ English

Hobbies:

- ❖ Gardening
- ❖ Listening Song
- ❖ Cooking

References

- ❖ **Md. Tanvir Ahmed**
  Associate Professor,
  Department of Computer Science and Engineering, Ahsanullah University of Science and Technology
  Email: tanvir.cse@aust.edu

- ❖ **Mohammad Shafiul Alam, PhD**
  Professor and Head
  Department of Computer Science and Engineering, Ahsanullah University of Science and Technology
  Email: shafiul.cse@aust.edu