Syed Md. Irfanul Alam Irfan

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Education

North South University Dhaka
Bachelor of Science in Computer Science & Engineering Jan 2015–Apr 2020

Bangladesh Navy College Chattogram
Higher Secondary School Certificate Jul 2012–Jun 2014

Work Experience

Codephilics Dhaka
Software Engineer Mar 2020–Sep 2020 (7 months)

- Responsible for developing Mobile Application & Machine Learning.
- Worked in mobile application development
  * Design & develop the front-end
  * Implement application using Flutter hybrid framework
  * Use google firebase platform in the back-end for user registration and login
- Built ID card OCR model
  * Extract data for instance– name, date of birth, number, signature from ID card using Tesseract OCR
  * Extract face image data using face detector from ID card
  * Store the extracted data in a JSON file
- Developed machine learning model
  * Pre-process dataset
  * Train the pre-processed data using convolutional neural network to create model
  * Include face recognition using Haar Cascade to detect the face of a person
  * Analyze dataset to provide data-driven decisions for better accuracy
- Worked in news aggregator service
  * Develop news scraper using the python library- beautiful soup (bs4)
  * Scrape news data such as headline, category, date, description, news link etc.
  * Store the scraped data in a csv file as well as in a JSON file
- Learned new skills– Flutter, Convolutional Neural Network, OCR Tesseract and Python Library- Beautiful Soup.

Publication

[1] K. Ahmed, T. R. Shahidi, S. M. Irfanul Alam, and S. Momen, "Rice leaf disease detection using machine learning techniques", in *2019 International Conference on Sustainable Technologies for Industry 4.0 (STI)*, 2019, pp. 1–5.

Skills

- **Programming Languages:** Python, Java, Object Oriented Programming, JavaScript, R, SQL
- **Framework & Libraries:** Keras, Tensorflow, Matplotlib, Numpy, Pandas
- **Tools & Platforms:** Anaconda, Jupyter, VS Code, RStudio, XAMPP, MS Excel, Eclipse
- **Operating Systems:** Linux, Windows
- **Others:** Git, CLI, Latex, Arduino

Languages

- **English:** Working proficiency
- **Bangla:** Native or bilingual proficiency
- **Hindi:** Elementary proficiency

Projects

See full list of projects on www.syedirfanx.me/projects

- Traffic Monitor App (Java, Android Studio, 2018)
  A mobile app to monitor traffic.

- Machine Overheat Detection (Arduino, C++, 2018)
  Detect if any machine exceed a threshold temperature.

Coursera Course Certificates

- Machine Learning Foundations: A Case Study Approach   Jun 2020
- R Programming   Jun 2020
- Technical Support Fundamentals   May 2020
- The Data Scientist's Toolbox   May 2020
- Neural Networks and Deep Learning   Apr 2020

Extracurricular Activities

- Member at Toastmasters International   2017–2018
  I was an official member of Toastmasters International, participated in regular programs arranged by the organization, and was certified as an active charter member of the organization. I have developed my communication skills here.

- Member at North South University ACM SIGAPP Student Chapter   2018
  During this membership I have attended several workshops organized by NSU ACM SIGAPP Student Chapter and got to know new things outside of the academic courses.

- Member at North South University Problem Solvers   2017
  I have joined bootcamp during this membership, which is an in-house training for the problem solvers consists of weekly classes and contests.