

Mehedi Imam Shafi

R&D Engineer | Data Scientist | <https://mehedi-shafi.github.io>
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SKILLS

MACHINE LEARNING

Regression
Support Vector Machines
Naive Bayes
K-Nearest Neighbors
Decision Trees

DEEP LEARNING

Artificial Neural Network
Shallow Neural Network
Deep Neural Network
CNN, RNN, R-CNN, YOLO

PROGRAMMING

Languages

Python (3.x), C, C++, JAVA, Kotlin
JavaScript, HTML, Markdown, CSS
SQL

Frameworks and tools

Tensorflow, PyTorch, Keras
Dlib, TFLite
Flask, Node, Express
Gradle (android)

Database

PostgreSQL, MySQL, SQLite

Version Control System

Git, GitHub, GitLab

Cloud

AWS - EC2, S3, Rekognition
Google Cloud - Firebase, Speech API

OS and Misc.

Linux - Arch, Manjaro, Ubuntu
Windows - 7-10
Shell - Bash, Zsh

EDUCATION

BACHELOR OF SCIENCE

COMPUTER SCIENCE AND
ENGINEERING

Daffodil International University
January 2019 | Dhaka, Bangladesh

EXPERIENCE

PROGOTI SYSTEMS LTD, SURECASH

SOFTWARE ENGINEER

Dec 2020 - Present | Dhaka, Bangladesh

- Working as a full stack developer for the product TallyKhata Digital Credit using the following tech stacks
 - Django (Python) as the backend service and API server.
 - React (JavaScript) as the frontend UI framework.
 - Postgresql as database server.

CODEMARSHAL IT SYSTEMS LTD

RESEARCH & DEVELOPMENT ENGINEER

Feb 2019 - Nov 2020 | Dhaka, Bangladesh

- Built face verification and recognition server using Tensorflow, Mxnet hybrid models.
- Built on device face verification and recognition library for Android using tensorflow-lite with model accuracy of 0.99 out of 1.0
- Built automatic identity extraction from ID cards using image processing to understand given scene and optical character recognition to extract information given using tesseract 4.1 as base OCR library.
- Built intelligent IVR from analyzing speech input using google's speech API.
- On device machine learning sdks for android (Object Classification, Face Detection, Face Verification)

DIU COMPUTER AND PROGRAMMING CLUB

PRESIDENT

Jan 2018 - Dec 2018 | Daffodil International University, Dhaka, Bangladesh

- Was in active organizing body of ICPC, Dhaka Regional, 2018. Managing contest floor along with handling online presence of the contest.
- Arranged various workshop and technical talks to encourage students in rising technologies.
- Arranged specific training courses for weak and advanced students alike (differently).

PROJECTS




WORD SCRABBLE BOT

A PROGRAM THAT USES OCR TO IDENTIFY AND PLAY WORD SCRABBLE

Project Repository: [🔗/mehedi-shafi/word-scrabble-bot](https://github.com/mehedi-shafi/word-scrabble-bot)

- Automated letter identification
- Automated word scrabble board identification
- Generate correct list of words to play with
- Simulate playing by automated mouse controlling

LINKS

 /mehedi-shafi
 /mehedi-shafi
 /@mehedishafi

CF SOLVE TRACKER

AUTOMATED TRACKING OF SOLVING FOR INDIVIDUAL ON ANY CONTEST

Project Repository:  /mehedi-shafi/cf_solve_tracker

- Uses CodeForces API to grab user data for any particular contest
- Public API exposed to use.
- **Google Sheet automation script** to use directly from spreadsheet.

PROTHOM-ALO SCRAPPER

DEMO SCRAPING OF LOCAL NEWSPAPER HEADINGS

Project Repository:  /mehedi-shafi/prothom-alo-scrapper

- Crawl archives to generate url.
- Scraps headlines from any given date or date range.

LIGHTSHIP MANAGEMENT SYSTEM

A SCHOOL MANAGEMENT SYSTEM

Project Repository:  /mehedishafi/lightship

- Attendance, financial transactions, students, exam scores, employee, etc management
- Different levels of reporting

LECTURES

WORKSHOP ON ML

A SIX WEEK TRAINING ON MACHING LEARNING FOR UNDERGRAD STUDENTS

April 2021 - May - 2021 | Dhaka, Bangladesh

- **Host:** University of Liberal Arts Bangladesh
- **Goal:**
The program was designed to get final year students getting started with Machine Learning and its application. The program included 6 lectures with interactive sessions and hands on coding, ending with multiple assignments on data processing, visualization and application basic ML algorithms on public datasets.

OTHERS

OTHER SESSIONS AND SEMINARS I ATTENDED AS SPEAKER

- **A glimpse of AI and Machine Learning.** A session for freshers to get introduced with the idea of AI and ML and how they are related.

CERTIFICATIONS

DEEP LEARNING: SPECIALIZATION

5 COURSES | ONLINE | NON-CREDIT

Apr, 2020 | Coursera

Credential: UHG8957X4T8C

IMAGE AND VIDEO PROCESSING: FROM MARS TO HOLLYWOOD WITH A STOP AT THE HOSPITAL

ONLINE | NON-CREDIT

Mar 2020 | Duke University | Coursera

Credential: U6MQGTT4B7SC

MACHINE LEARNING

ONLINE | NON-CREDIT

Jan 2020 | Stanford Online | Coursera

Credential: 6JPNE2UXJDTN