

Mehedi Imam Shafi

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

MACHINE LEARNING

Regression
Support Vector Machines
Naïve 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 and Zsh

EDUCATION

BACHELOR OF SCIENCE

COMPUTER SCIENCE AND
ENGINEERING

Daffodil International University
January, 2019 | Dhaka, Bangladesh

EXPERIENCE

CODEMARSHAL IT SYSTEMS LTD

RESEARCH & DEVELOPMENT ENGINEER

Feb 2019 – Present | 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 2019 | 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).

DAFFODIL INTERNATIONAL UNIVERSITY

STUDENT PREFECT

May 2018 - December 2018 | Dhaka, Bangladesh

- Helped course faculty to do design and prepare course material for lab.
- Prepared and evaluated class assignments and programming tasks.
- Helped course faculty evaluate course projects and presentations.

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




CF SOLVE TRACKER

AUTOMATED TRACKING OF SOLVING FOR INDIVIDUAL ON ANY CONTEST

Project Repository: [🔗/mehedi-shafi/cf_solve_tracker](https://github.com/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.

LINKS

 /mehedi-shafi
 /mehedi-shafi
 /@mehedishafi

PROTHOM-ALO SCRAPPER

DEMO SCRAPING OF LOCAL NEWSPAPER HEADINGS

Project Repository: [/mehedi-shafi/prothom-alo-scrapper](https://github.com/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](https://github.com/mehedishafi/lightship)

- Attendance management
- Financial record management
- Exam management
- Student management etc
- Different levels of reporting

CERTIFICATIONS

DEEP LEARNING: SPECIALIZATION

5 COURSES | ONLINE | NON-CREDIT

Apr, 2020 | Coursera

Credential: UHG8957X4T8C

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

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

ONLINE | NON-CREDIT

Mar 2020 | Duke University | Coursera

Credential: U6MQGTT4B7SC

- Image representation, binarization
- Image compression, decompression, restoration
- Image segmentation, noise reduction

MACHINE LEARNING

ONLINE | NON-CREDIT

Jan 2020 | Stanford Online | Coursera

Credential: 6JPNE2UXJDTN

- Linear regression, Logistic regression, Gradient descent
- Supervised learning, Unsupervised Learning
- Neural network
- Machine learning project designing
- Support vector machine