Mehedi Imam Shafi

R&D Engineer | Data Scientist | https://mehedi-shafi.github.io
mehedishafi@hotmail.com | +880-1920884121 | 1599 Dania, Dhaka, Bangladesh

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 and 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 on FinTech product TallyKhata.

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

- 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

- 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 scrapping 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 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