SUDIPTO BARAL

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CAREER OBJECTIVE

Looking for a creative and dynamic job where I can contribute with my technical and interpersonal skills, do creative things and develop an innovative mind.

EDUCATION

Degree	Institute	Result	Passing Year
Bsc. Engg In CSE	Patuakhali Science and Technology University	**3.50 / 4.00**	2019
HSC	Govt Syed Hatem Ali college, Barisal	**5.00 / 5.00**	2014
SSC	Barisal Zilla School	**5.00 / 5.00**	2012

SKILLS

Programming/Scripting Languages: C, C++, Python, Java, SQL (*Familiar with*) Javascript, php, html, CSS
Frameworks and tools: MATLAB, Android Studio, Tensorflow, Keras, Django, Git
Competitive Programming: RUET NCPC 2016 final round participant, Hackerrank (Id: sudiptob2, *max rating: 1631*), Codeforces (Id: sudipto.me, *max rating: 1420*), codechef (Id: sudiptob2, *max rating: 1562*)

EXPERIENCE

Research Student

Electrical Engineering and Image Processing Laboratory, Department of EEE, PSTU, January - April, 2019

- Developed an efficient algorithm for masking and feature extraction from Rice Leaf images for further detection of diseases in the leaf. Later extracted features are used to train neural network to achieve more accurate result while detecting disease in rice leaf. We also developed an application (in Android) implementing the algorithm which detects rice leaf diseases with high accuracy.

AI and Machine Learning Trainee at BJIT Limited

BJIT Limited, July - September, 2019

- Learned not only theory of machine learning and Deep learning but also implemented them in real code. In this 3 months training we had hands on experience on AI machine learning. Also we learned about the industry standard of these technologies. This training is a good start for getting practical experience of this essential technology i.e. the AI.

PROJECTS

AgRGB

- AgRGB is a plant disease detection software. It uses various image processing techniques to detect and classify diseases on plant leaf. This software is an implementation of my final year research work.
- ***Technology used:*** *Android,, Machine Learning*
- ***GitHub:*** **https://github.com/sudiptob2/AgRGB_Android**

THINKnDRAW

- In this fun android game project we developed an Android application where you have to draw some doodle to pass the quizzes. As every ones drawing is different, Deep Learning was used to recognize the drawings.
- ***Technology used:*** *Android,, Deep Learning, Google Quick Draw Dataset*
- ***GitHub:*** **https://github.com/sudiptob2/THINKnDraw_BJIT_Academy_Final_Project**

Disha - IOT based Smart Home Automation

- This project achieved automation for home appliances at a very cheap price. The main objective of the project was to reduce the cost of automation technology based on IOT. Many advanced automation features such as voice activation, remote access from anywhere in the world, preserving state of the appliances and automatic restart mechanisms are included in the system.
- ***Technology used:*** *IOT, Dataplicity, python, HTML , CSS, JavaScript, MySql,PHP*
- ***GitHub:*** **https://git.io/fj3Zg**
- ***YouTube:*** **https://youtu.be/b7pdd4jxxH8**

E-Health

- E-Health is an Android application for doctors and patients. Any person can contact verified doctors using the app. The app manages patient's history, prescriptions, diseases etc. and ease the process for both doctor and patients.
- ***Technology used:*** *Java, Mysql, JSON, PHP*
- ***Github:*** **https://git.io/fj3LM**

Automatic Subject and Hall Migration Software

- This software is mainly developed for Admission and Controller of the examination authority of Patuakhali Science and Technology University. This project aims to automate the process of subject migration and hall migration during undergraduate admission in the university. The authority is using this software officially since 2018.
- ***Technology used:*** *PHP, MySql, Javascript, HTML, CSS, fPdf*
- ***Github:*** **https://git.io/fj3t5**

Zone Manager – Kalapara Upazilla

- Zone manager is developed for AC Land office, Kalapara under supervision of UNO (Kalapara). The software manages Daag, Khatian Database for AC Land to automate a lot of tedious work. AC Land office is using this software since 2018.
- ***Technology used:*** *Java, SqLite*
- ***GitHub:*** **https://git.io/fj3qC**

PUBLICATIONS

- Paper (*A faster technique on rice disease detection using image processing of affected area in agro-field*) published in 2nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018) IEEE
- Paper (*Advance home automation using raspberry pi and dataplicity*) published on International Journal of Computer Science and Engineering (IJCSE) ISSN(P): 2278-9960 ISSN(E): 2278-9979 Vol. 8, Issue 2, Feb - Mar 2019; 1-10

RECOGNITIONS

Best Young Innovator award

- At Patuakhali Digital Innovation Fair – 2018 (*Rice field monitoring and disease detection system*)

Project Fair Champion

- At 3rd PSTU IT Carnival 2018

Deans Merit Award

- Deans Merit award for excellent academic performance.

First position in AI/ML Training at BJIT

- Got First position at the final exam of the training course. Also selected as the overall course first.

PERSONAL STRENGTH

- Quick learner and Self-motivated for learning, need minimum supervision to work
- Flexibility and adaptability with changes
- Good analytical and problem solving capacity and able to work with team
- Self-motivated for learning

OTHER TRAINING COURSES

- Introduction to Machine Learning by Stanford University (coursera.org)
- Python for Data Science by UCSanDiego (edx.org)
- Mobile Game Graphics Design and Advanced Mobile Game Development under Capacity Building for Mobile Game Development program.

REFERENCE

Prof Dr S M Taohidul Islam (Thesis supervisor)
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