ZABIR AL NAZI

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EDUCATION

B.Sc. in Electronics and Communication Engineering   Expected Graduation in March 2019

Khulna University of Engineering and Technology   CGPA: 3.43 / 4.00

Coursework: Data Structure and Algorithm, Database Management, Internet Programming, C Programming, Object Oriented Programming with C++, Digital Image Processing, Digital Signal Processing, Artificial Neural Network and Fuzzy Logic, Numerical Methods, Linear Algebra, Probability and Statistics, Multivariable Calculus, Computer Networks

Higher Secondary Certificate in Science   2012 - 2014

RAJUK Uttara Model College   GPA: 5.00 / 5.00

WORK EXPERIENCE

Ice9 Interactive – Research Intern   November 2017 - February 2018
· worked on imagery data mining with different API services
· other activities: using computer vision techniques to extract features from street view images, training ML models to classify and localize objects, designing dynamic maps etc.

MazeGeek BD – Intern, Research Assistant I   May 2018 - Present
· worked on VINNDO platform, did some web scrapping
· working on deploying a ML model which can extract car features from images, localize car parts and automatic VIN detection system

SKILLS

Fields	Algorithms and DS, Computer Vision, Image Processing, Machine Learning, Embedded Systems, Robotics, Biomedical
Languages	C++, C, Matlab, GNU Octave, Python, C#, Javascript, PHP, Java
Operating System	Windows, Ubuntu
Frameworks / Tools	Keras, Flask, scikit-learn, OpenCV, Pandas, Bokeh, Jupyter Notebook, Spyder, CodeBlocks, Unity

PUBLICATIONS

- Information Prediction in Sensor Networks Using Milne-Simpson's Scheme, **International Conference on Advances in Electrical Engineering (ICAEE)**
- Data Prediction in Distributed Sensor Networks using Adam-Bashforth Moulton Method, **Journal of Sensor Technology**
- Bangla Handwritten Digit Recognition Approach with an Ensemble of Deep Residual Networks, **International Conference on Bangla Speech and Language Processing** [Accepted]
- Motor Imagery EEG Signal Classification Using Random Subspace Ensemble Method, **7th International Conference on Informatics, Electronics & Vision** [Accepted]

- Motor Imagery EEG Classification using Random Subspace Ensemble Network with Variable Length Feature Sampling, **International Journal Bioautomation** [Submitted]

PROJECTS

Autonomous Driving System with Matlab

· I developed a toolbox to calibrate the car and get the images for training mode easily, used a simple distributed computing system with two laptops to speed up processing, ad-hoc image processing technique for lane detection and cascade classifiers for road sign detection

· https://github.com/zabir-nabil/autonomous-driving-system

ACHIEVEMENTS

ACM International Collegiate Programming Contest, Dhaka Regional (2015, 2016, 2017)

· https://icpc.baylor.edu/ICPCID/BIKBO2UHPKON

Ignition 2018: National Mechanical Festival

· **Champion**, Matlab Programming Contest

COMPETITIONS

Kaggle – Numta, Bengali Handwritten Digit Recognition Challenge

· Top 15%   · https://www.kaggle.com/furcifer

VOLUNTEER EXPERIENCE

· Algorithmic Problem Setter, **CodeAssign** (start-up focused on OJ, based on Croatia)

· Secretary, **IEEE KUET Student Branch**

· Assistant General Secretary, **SGIPC** (club of competitive programming community at KUET)

· Software Team Lead, **KUET Rover Makers** (International Rover Challenge)

· Intro Python Instructor, **Fab Lab KUET**

· Technical organizer, **TechNival** (biggest tech carnival launched by MEC, KUET)

· Founder & Fellow Member, **IRAS** (Innovation and Research Association for Students, KUET)

Others

· **Regional BACS Programming Camp 2017**, Khulna Region (got invitation, participated)

· **National BACS Programming Camp 2017** (got invitation, participated)