

Saklain Zaman

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Education

University of Dhaka

BSC IN COMPUTER SCIENCE AND ENGINEERING

CGPA: 3.65

Dhaka, Bangladesh

2015 - 2018

Birshreshtha Noor Mohammad Public College

HIGHER SECONDARY SCHOOL CERTIFICATE

GPA: 5.00

Dhaka Board

2014

Dhaka Shiksha Board Laboratory School and College

SECONDARY SCHOOL CERTIFICATE

GPA: 5.00

Dhaka Board

2012

Research

A Deep Learning Based Device Authentication Scheme Using Channel State Information

Published in ICIET 2018

NETWORKING, INDOOR POSITIONING SYSTEM, DEEP LEARNING

- A deep learning based approach namely LSTM is exploited to authenticate devices more accurately in indoor environments utilizing Channel State Information (CSI) from received wireless signals.
- This system can overcome the issues with existing device authentication systems which suffer either from complicated key management or structural dependency.

Intruder Detection System Using Indoor Positioning System (IPS)

Undergraduate Thesis

NETWORKING, INDOOR POSITIONING SYSTEM, DEEP LEARNING

- Intrusion detection system(IDS) is a Deep Learning based solution which monitors the network to detect malicious and unnatural activity to declare intrusion or unauthorized access .
- The objective of this work is to use wifi networks to build an IDS due to its ubiquity and low cost system deployment.
- Channel State Information (CSI) is extracted from wifi signals and categorized to differentiate between a legitimate user and intruder in order to skip the costly authentication process to reduce system load.

Projects

Bangla Sentence Classification Based On a Custom Trained Word2vec Model

Natural Language Processing

SCIKIT-LEARN, GENSIM, PANDAS

<http://bit.ly/2YjB24K>

In this model, sentences are represented as the average of all word vectors (from custom trained word2vec model) in a specific sentence. Supervised learning algorithm is used to classify those Bangla sentences based on their vector representation.

Cardiovascular Disease Recognition Using Machine Learning

Machine Learning

SCIKIT-LEARN, PANDAS

<http://bit.ly/2JGGhDv>

Attributes like gender, height, weight, blood pressure, glucose, cholesterol, smoking, activity etc are chosen as features and logistic regression is used to predict a patient with cardiovascular disease.

Comparative Study of Different Machine Learning Algorithms

Machine Learning

SCIKIT-LEARN, PANDAS

<http://bit.ly/2Srm0Vk>

Performance analysis is done for different machine algorithms for text classification. Countvectorizer and TF-IDF is used and comparative accuracy of Naive Bayes, Decision Tree, SVM, Logistic Regression is measured.

Bangla Text Predictive model

Natural Language Processing

PYTHON, GENSIM

<http://bit.ly/2JWfVwt>

Text data analysis by creating vector representations of individual words in a corpora. This model can be used to find most similar words, predicted output words in some context and other complex relationships between words.

DU Fitness Center Automation

HTML5, CSS, FIREBASE, JAVASCRIPT, NODE.JS, NODemailer

This website is designed to automate or digitalize the administrative activities of Dhaka University Fitness Center. This application improves user experience through reliability and availability and reduces administrative burden and operating expenses.

Web Development

<http://bit.ly/2O9EFXa>

Ghorowa Khana

HTML5, CSS, FIREBASE, JAVASCRIPT, NODE.JS, NODemailer

"Ghorowa Khana" is a customer-friendly online food ordering system. This web application offers a convenient and transparent solution to the hustle of old methods which can be easily converted into an efficient business model.

Web Development

<http://bit.ly/2LwIAv4>

Encrypto

JAVA

"Encrypto" is developed to enhance information security through the implementation of Data Encryption Standard (DES). This provides security against attackers for sensitive text based information such as credit card information, passwords, banking details etc.

Information Security

Skills

Programming Languages

C, C++, JAVA, PYTHON

Data Science

TENSORFLOW, KERAS, IBM WATSON, SCIKIT-LEARN, PANDAS

Web Application Development

JAVASCRIPT, DJANGO, NODE.JS, FIREBASE, BOOTSTRAP

Database Management

NoSQL, ORACLE SQL, MYSQL

Participation

IBM-Centre of Excellence

DEVELOPED A MINIMUM VIABLE PRODUCT (MVP) TO BUILD A CHATBOT USING WATSON ASSISTANT, MENTORED BY IBM.

2019

BRACathon

DEVELOPED A CHILD CARE APP TO ENSURE SAFE PREGNANCY AND HEALTHY BABY.

2017

Battle of Brains

A INTRA DEPARTMENT PROGRAMMING CONTEST.

2016

Experiences

Genex Infosys Limited

ASSISTANT DEVELOPER(NLP)

2019 - PRESENT

Reference

Dr. Md. Mamun-Or-Rashid

PROFESSOR

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