Sarbajit Paul Bappy

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https://github.com/SarbajitPbappy | **Portfolio:** https://sarbajitpbappy.github.io/sarbajit.me/ |

Address: Daffodil International University, DSC Campus, YKSG-1, NB-501, 1341, Dhaka, Bangladesh (Home)

ABOUT ME

I am a third-year Computer Science student proficient in C/C++, Python, and MySQL. Currently deepening my knowledge in machine learning and deep learning, I aspire to pursue a career in academia, where I can educate and inspire future generations. I am eager to apply my skills to real-world projects while continuing my professional growth.

EDUCATION AND TRAINING

10/05/2022 – CURRENT Dhaka, Bangladesh
BSC. IN COMPUTER SCIENCE AND ENGINEERING Daffodil International University

Coursework in CS Fundamentals, Programming and Problem-Solving, Object-oriented Programming, Data Structure, Software Project, Discrete Mathematics, Business Application Design and Employability, Engineering Mathematics, Algorithm, Computer Architecture and Organization, Object Oriented Programming II.

Website https://daffodilvarsity.edu.bd/ | **Final grade** 3.91/4.00 | **Level in EQF** EQF level 6

01/07/2017 – 31/12/2019 Khulna, Bangladesh
HSC IN SCIENCE Govt. Majid Memorial City College

Website https://www.mmcitycollege.edu.bd/ | **Final grade** 5.00/5.00 | **Level in EQF** EQF level 4

LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s): **ENGLISH**

DIGITAL SKILLS

MySQL | Data Structure | Algorithm | C/C++ | Problem Solving

Python

Python, Scikit-Learn, Numpy, Matplotlib | Tensorflow

PROJECTS

10/08/2023 – CURRENT
Medical Image Classification with Deep Learning

This study explores the application of deep learning techniques in medical image classification to enhance diagnostic accuracy. The process involves pre-processing medical images to improve quality and ensure consistency. Selected images undergo augmentation to create robust training, testing, and validation datasets. By applying pre-trained models and customizing hybrid models, the research aims to achieve high-performance classification of medical images, thereby aiding healthcare professionals in diagnosis. This comprehensive approach to medical image classification can significantly contribute to the early detection and treatment of various medical conditions.
Key Achievement:
● Cleaned and enhanced image quality for deep learning.
● Developed an efficient hybrid model that outperforms on various image datasets.
● Achieved higher accuracy in disease detection than previous models.
Used Technology: Python, TensorFlow, Keras, OpenCV, Jupyter Notebook, Git/GitHub

01/01/2024 – 30/01/2024
Bangladesh Rainfall and Temperature Analysis and Prediction of Future Rainfall with Machine Learning

This project focuses on analyzing historical rainfall and temperature datasets to uncover trends and patterns in Bangladesh's climate. Initial data processing involves detailed trend analysis and visualization of the dataset to identify key climatic factors. The data is then pre-processed for machine learning activities, paving the way for predictive modeling. Advanced machine learning

algorithms are employed to predict future rainfall, providing valuable insights for agricultural planning, disaster management, and environmental conservation.

Key Achievement:
● Identified seasonal rainfall patterns.
● Uncovered temperature-rainfall correlation.
● Developed accurate machine learning models for future rainfall prediction

Used Technology: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Jupyter Notebook, Git/GitHub

Link https://github.com/SarbajitPbappy/RainfallML

15/02/2024 – 20/02/2024
Bangladesh Population Analysis With MySQL

This project delves into the intricate tapestry of Bangladesh's population statistics, aiming to bridge linguistic barriers by translating Bengali names into English for global accessibility. Leveraging advanced SQL queries, the study conducts extensive data analysis to unveil insights into demographic trends, urbanization patterns, and population density dynamics. By scrutinizing diverse datasets, this research sheds light on the multifaceted aspects of Bangladesh's population dynamics, offering valuable insights for policymakers, researchers, and stakeholders.

Used Technology: Jupyter Notebook, MySQL workbench, Git/GitHub

Link https://github.com/SarbajitPbappy/Project-ONE

08/03/2024 – 16/04/2024
Email Spam Classification with Pandas & Machine Learning

This project focuses on the classification of emails into spam and not-spam categories using a dataset comprised of 5172 emails. Utilizing the power of machine learning and data analysis, we dive deep into a CSV dataset that contains detailed information for each email, including the presence of the 3002 most common words, enabling a comprehensive approach to spam detection.

Key Achievement:
● Utilize random forest and decision tree algorithm for model training.
● Identify potential new spam words that are not present in the dataset.

Used Technology: Jupyter Notebook, Panda, Git/GitHub

Link https://github.com/SarbajitPbappy/Project-NOT

VOLUNTEERING

01/02/2024 – CURRENT Daffodil International University
Vice Chair (Technical) IEEE DIU SB CS Chapter

01/02/2024 – CURRENT Daffodil International University
Secretary IEEE DIU SB WIE Affinity Group

02/04/2024 – CURRENT
Campus Organizer at Environmental Olympiad 2024 (BrikkhoBondhu)

Educate people on the effects of greenhouse gases and climate change. Promote tree planting, waste management, and sustainable practices to reduce environmental impact and protect the planet. Certificate.

COURSES AND CERTIFICATIONS

12/01/2023 – 24/02/2024
Supervised Machine Learning: Regression and Classification (Instructor: Andrew Ng)

Supervised Machine Learning: Regression and Classification is a comprehensive course offered by DeepLearning.AI on Coursera that covers the fundamentals of supervised learning. It delves into key techniques such as regression and classification, providing a practical understanding of building, training, and evaluating machine learning models. Learners explore essential concepts like linear regression, logistic regression, and model evaluation metrics while gaining hands-on experience with real-world datasets. The course equips students with the foundational skills needed for advanced machine learning applications.

Link https://www.coursera.org/account/accomplishments/verify/RYF6AW9BPQLN

17/09/2022 – CURRENT
CSE Fundamental

The CSE Fundamental Course by Phitron.io provides a comprehensive overview of key computer science concepts, including data structures, algorithms, object-oriented programming, database management, and software development principles. In addition to these core topics, the course also covers Amazon AWS and introduces learners to machine learning, offering hands-on experience with cloud services and AI techniques. This diverse curriculum prepares students for both advanced studies and real-world applications in the tech industry.

Links https://phitron.io/ | https://drive.google.com/file/d/1yrBCa6mlGcK6NMjazMPyT8oX9hLkZaT2/view

ACHIEVEMENTS

Obtain 29th position in Take Off Programming Contest - 2022

Jatiyo Shishu Kishore Quiz Utsav Regional Winner - 2016

National Creative Talent Hunt Competition Regional Winner (2013-2016)

RECOMMENDATIONS

Dr. Md. Fokhray Hossain Professor

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Associate Dean, Faculty of Science and Information Technology (FSIT) &
Director, International Affairs
Daffodil International University,
Birulia, Savar, Dhaka-1216, Bangladesh

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Dr. Md. Kamrul Hossain Associate Professor (Statistics)

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