

Masruk Habib

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Objective

Dedicated Machine Learning and Research enthusiast seeking an opportunity to apply theoretical knowledge to real-world challenges. Passionate about data-driven solutions, engaged in research projects, and eager to gain hands-on experience under expert mentorship.

Education

Bachelor of Technology - Computer Engineering,

Marwadi University, Rajkot, Gujarat, India

July 2021 – Present

CGPA: 7.40/10 (Up to 7th Semester)

Higher Secondary Certificate Examination [A-Level],

BIAM Model School and College, Bogura, Bangladesh

2018 – 2020

GPA: 5.00/5.00

Secondary School Certificate Examination [O-Level],

BIAM Model School and College, Bogura, Bangladesh

2017 – 2018

GPA: 5.00/5.00

Extracurricular Activities

Research Intern,

Dept. of CE, Marwadi University.

May 2024 - Jun 2024

- Engaged in real-world projects, gaining hands-on experience in research methodologies, research paper writing, and data analysis.
- Collaborated with experienced mentors to refine techniques and contributed to two published research papers, improving skills in critical thinking, technical reporting, and academic writing.

Projects

UR3 CobotOps – Enhancing Cobot Efficiency with ML

Github

- Optimized the UR3 collaborative robot using ML techniques for predictive maintenance and anomaly detection. Applied ARIMA for forecasting, LSTM for pattern recognition, K-Means for clustering, and classification models for fault prediction. Trained on a UCI dataset with plans for real-time sensor integration.

Machine Learning Classifiers and Hyperparameter Tuning to Enhance Prediction of ASD: An Automated Django Application

Github

- Developed a machine learning-based predictive system for Autism Spectrum Disorder (ASD) detection using a UCI dataset. Optimized SVM, LR, ET, and DT classifiers to achieve perfect precision and recall. Hosted on a Django platform for accessibility, with findings published in WCONF 2024, highlighting its impact on early ASD detection in healthcare.

Fusion of Machine Learning Techniques with Hyperparameter Tuning for Hypothyroidism Prediction and Real-Time Flask Web Application

Github

- Collaborated with a diverse team on a university mini-project to develop a real-time Flask web app for hypothyroidism prediction. Leveraged advanced machine learning and hyperparameter tuning to ensure high accuracy and reliable health assessments under expert guidance.

Phishing website detection using machine learning

Github

- The project aims to build and evaluate machine learning models that can effectively classify websites as phishing or legitimate based on their features. The use of data balancing, visualization, and various models demonstrates a comprehensive approach to tackling the phishing detection problem.

Technical Skills

Programming Languages: Python, JavaScript, Java, C++, C, MySQL.

Machine Learning: Scikit-learn, TensorFlow, PyTorch, OpenCV, Machine Learning, Data Analysis, Deep Learning, Computer Vision.

Tools & Platforms: Git, GitHub, Tableau, VS Code, Figma, Linux, AWS, MS Office.

Web Technologies: HTML5, CSS3, React.js, Node.js

Soft Skills

Leadership, Research, Communication, Teamwork, Problem-Solving, Time Management, Project Management, Critical Thinking, Adaptability, Native Bengali, Advanced English, Elementary Hindi, Photography.

Certifications

Explore Machine Learning using Python Issued by Infosys|Springboard, September 2024

Student Research Internship Training (SRIT) Issued by Marwadi University, July 2024

The Complete Tableau Bootcamp for Aspiring Data Scientists Issued by Infosys|Springboard, March 2023

Postman API Fundamentals Student Expert Issued by Postman, April 2023

CCNAv7: Introduction to Network Issued by Cisco Network Academy, February 2023

NDG Linux Essentials Issued by Cisco Network Academy, April 2023

AWS Academy Graduate - AWS Academy Cloud Foundations Issued by Amazon Web Services, October 2023

Database Programming with SQL Issued by Oracle Academy, November 2022

Python Data Structures Issued by Coursera, August 2022

Programming for Everybody (Getting Started with Python) Issued by Coursera, July 2022

Publications

Machine Learning Classifiers and Hyperparameter Tuning to Enhance Prediction of ASD

Published in: 2024 2nd World Conference on Communication Computing (WCONF).

DOI: 10.1109/WCONF61366.2024.10692172

A Comparative Study on Hybrid Machine Learning Voting Classifier Models for Alzheimer's Disease Prediction

Published in: 2023 International Conference on AI for Innovations in Healthcare.

DOI: 10.1109/ICAIIHI57871.2023.10489772

Predicting Psychological Well-being Using Machine Learning with Hybrid Hyperparameter Tuning Techniques

Published in: Accepted in "The Global AI Summit 2024"

Awards

Award-winning team at Azadi Ka Amrit Mahotsav Hackathon-2022

Government of Gujarat, Mar 2023

Our team was honored with the winning award at Gujarat's Azadi Ka Amrit Mahotsav Hackathon 2022, a state-level event marking India's 75th year of independence. Our project was recognized for its innovative approach and practical impact.