Shibam Chakraborty

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EDUCATION

BRAC University, Bachelor's in Computer Science — January 2022 – Present
- GPA: 3.39/4.0

Bakolia Govt. College, Higher Secondary Certificate — 2020
- GPA: 5.00/5.00

St. Placid's School and College, Secondary School Certificate — 2018
- GPA: 5.00/5.00

EXPERIENCE

Freelance Writer, Wordpress — 2019 – Present
- Self-Employed

Instructor, Srijon, BRAC — February 2023 – May 2023
- Developed and delivered interactive lessons on IT, health, and ethics to underprivileged students

RSEARCH PAPERS

Accepted: 1 Conference paper is accepted in the 8th International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R), Morocco.
Working: Currently working on two journal papers. Field: NLP, Computer Vision

Thesis

" **HyMaC-Net: A Hybrid Lightweight Mamba-CNN Framework with Patch Embedding for Medical Image Classification** "
- Developed a hybrid generalized deep learning architecture (HyMaC-Net) combining CNN and Mamba-based state-space modeling for efficient medical image classification.
- Focused on lightweight and deployable model design, optimizing performance for resource-constrained environments.
- Conducted a comprehensive experimental evaluation using multiple medical imaging datasets to validate model efficiency and generalization.

PROJECTS

ML Football Match Outcome Prediction — MLFootballPred
- An undergraduate course project on football match prediction using three ML models.
- Tools Used: Python

GhauGhau a Pet Adoption Platform — GhauGhau
- Developed a full-stack website for pet adoption.
- Tools Used: NodeJS, NextJS, Tailwind CSS, MongoDB.

Road Rash with Obstacles 3D — RoadRash3D
- About A Car-obstacle game, built with OpenGL and Python. The car can shoot bullets to destroy obstacles (cars), and enemy cars will follow me.
- Tools Used: Python, OpenGL

Brain-Tumor Segmentation & Classification — Brain-Tumor seg-cls
- A computer-vision project for segmentation and classification using UNet and updating UNet to Attention-UNet for segmentation.

- Tools Used: Python, Pytorch, Tensorflow.

SKILLS

Programming Languages: Python, C.

Web Development : NextJS, TailwindCSS, MernStack.

Other Expertise : Github, TawkTo, Machine Learning, Deep Learning, Natural Language Processing, Large Language Models, Prompt Engineering.

Field Skills: Communication, Leadership, Problem Solving, Public Speaking, Teamwork, Mentoring/Teaching.

Certifications

- **Udemy** - Machine Learning A-Z: AI, Python and R+, ChatGPT [2024]
- **IBM** - Project Management Fundamentals [2024]
- **Udemy** - The Data Science Course: Complete Data Science Bootcamp [2025]

INTERESTS

- Research in AI for Healthcare, Medical Imaging, and Explainable AI
- Developing scalable AI/ML solutions for real-world challenges
- Exploring intersections of Natural Language Processing (NLP) and Computer Vision
- Public speaking and knowledge sharing
- Competitive gaming