Shibam Chakraborty

Computer Science Graduate & Researcher

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SUMMARY

Computer Science graduate specializing in Machine Learning and Computer Vision with hands-on experience in building AI models, deep learning architectures, and full-stack applications. Published researcher with a paper accepted at an international conference. Skilled in Python, PyTorch, TensorFlow, and modern LLM tools with experience deploying practical AI solutions. Passionate about applying ML for healthcare and real-world problem-solving.

EDUCATION

BRAC University, Bachelor's in Computer Science — 2022 – 2025
- GPA: 3.40/4.0

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

Researcher, Research Activator Lab — 2025 – Present

- Conducting research in computer vision and medical image analysis.

- Implementing hybrid architectures and evaluating performance across multiple datasets.

- Preparing experiments, analyzing results, and contributing to publications.

Instructor, Srijon, BRAC — February 2023 – May 2023
- Delivered interactive lessons on IT fundamentals, ethics, and digital literacy.
- Simplified complex concepts with real-life examples to aid student understanding.

RESEARCH & THESIS

Accepted Paper: 1 Conference paper is accepted in the 8th International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R), Morocco.

Thesis: "HyMaC-Net: A Hybrid Lightweight Mamba-CNN Framework with Patch Embedding for Medical Image Classification"
- Designed a novel hybrid model achieving efficient and generalizable medical image classification.
- Focused on lightweight design, patch-based embedding, and interpretability.

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.

TECHNICAL SKILLS

Programming: Python, C, JavaScript
ML/DL Frameworks: PyTorch, TensorFlow, Keras, Scikit-Learn
Computer Vision: OpenCV, CNNs, UNet, Attention-UNet, Vision Transformers, Mamba
NLP & LLMs: HuggingFace, LangChain, Tokenization, Fine-tuning, Prompt Engineering
Tools: Pandas, NumPy, Git, Matplotlib
Web Development: Next.js, Node.js, Express, MongoDB, TailwindCSS
Soft Skills: Public Speaking, Mentoring, Team Collaboration, Problem Solving

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

AI for Healthcare, Computer Vision, NLP–CV Integration, Explainable AI, Teaching, Competitive Gaming

REFERENCES

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