Biswadeep Mazumder

Bachelor of Technology, Computer Science and Engineering
Jorhat Engineering College

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	Jorhat Engineering College	8.52	2023-2027
Senior Secondary	Kendriya Vidyalaya	91.67%	2020-2022
Secondary	Kendriya Vidyalaya	86.4%	2010-2020

Experience

- **Research Intern, IIIT Guwahati** *July 2025 -*
  Intern under Dr. Manojit Ghose Guwahati
  - Designed and experimented with custom CNN architectures for image classification tasks.
  - Integrated advanced technologies in the models to optimize the model performance.
  - Performed layer-wise energy estimation using MACs, reducing inference energy for resource-constrained deployment.

- **Runners Up, HACKDAYS 3.0** *March 2025*
  Hackathon organized by Guwahati University Guwahati
  - Developed an AI-based evaluation system with adaptive, concept-focused assessments to reduce rote learning and ensure fair grading.

Personal Projects

- **AI-Based Evaluation System for Fair and Effective Learning**
  Tools Used: Python3, NLP, Machine Learning, LLMs, Streamlit [ ]
  - Designed an AI-driven evaluation system with personalized, concept-focused assessments that reduce rote learning and use semantic similarity–based grading aligned with teacher intent.

- **Streamlit ML Showcase: Diamond Pricing & Land Terrain Classification**
  Tools Used: Python3, Streamlit, Scikit-learn, TensorFlow/Keras, CNN, XGBoost [ ]
  - Built an interactive Streamlit application showcasing end-to-end ML workflows with real-time predictions and clean UI.
  - Implemented a regression-based diamond price prediction system with encoded categorical features and a CNN-based land terrain classification model supporting six landscape categories.

- **Face-Detecting Attendance System**
  Tools Used: Python3, OpenCV, Face Recognition, Streamlit [ ]
  - Developed an automated attendance system that detects faces in real-time and records the date and time of each person.

- **Image Scraper Web App**
  Tools used: Python3, Selenium, Streamlit, Requests, PIL, Chrome WebDriver [ ]
  - Built a Streamlit web app to automate image scraping from Google Images for deep learning dataset creation.

Technical Skills and Interests

- **Programming Languages**: C/C++, Python, HTML, CSS, Javascript
- **Libraries**: Scikit-learn, TensorFlow, OpenCV, Matplotlib, Selenium
- **Tools**: VS Code, GitHub, Jupyter Notebook, Google Colab, MySQL
- **Areas of Interest**: Natural Language Processing, Web Scraping, Machine Learning, Deep Learning

Certifications

- **Supervised Machine Learning: Regression and Classification** *Stanford University & Coursera*
- **Advanced Learning Algorithms** *Stanford University & Coursera*
- **Unsupervised Learning, Recommenders, Reinforcement Learning** *Stanford University & Coursera*