Safi Ullah Chowdhury

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⌂ Github   in LinkedIn

RESEARCH INTERESTS

● Deep Learning , Computer Vision, Machine Learning, Artificial Intelligence.

EDUCATION

BSc. in Computer Science and Engineering   May 2020 - Present

University of Asia Pacific, Dhaka, Bangladesh   CGPA: 3.42/4.0

RESEARCH EXPERIENCE

University of Asia Pacific | *Undergrad Thesis*   June 2023 - Present

- Created new word level Benglai Sign Language Video Dataset.
- Working on developing a comprehensive recognition model.

Bangladesh Rice Research Institute (BRRI)   November 2023 - Present

- Built a dataset containing images of five different types of diseases affecting rice.
- Currently developing an image classification model.

PROJECTS

- ***Video Summarization • October 2023***
  Academic project involving a desktop application developed with Python CV2 and the Python Tkinter library. The application summarizes lengthy CCTV camera videos, detecting objects such as people, cats, dogs, etc.

- ***Tic-Tac-Toe Game • October 2023***
  Implemented a Tic-Tac-Toe game as part of an academic AI course project, incorporating the Mini-Max algorithm. Designed a graphical interface using Python Tkinter to facilitate AI vs. AI, human vs. AI, and human vs. human gameplay. This project demonstrates practical application and mastery of the Mini-Max algorithm, emphasizing proficiency in machine learning algorithms, game development, and user interface design.

- ***Image Caption Generation • May 2023***
  Academic project utilizing a pre-trained machine learning model, OpenAI's CLIP, and GPT-2 to generate captions for images.

- ***News Paper Image & Caption Scrapping • May 2023***
  Personal project for learning web scraping using Python Selenium and Beautiful Soup. Created a dataset of around 10,000 Bangla newspaper images with their captions.

- ***Portfolio Website Development • December 2022***
  Created a personal portfolio website as an academic project using HTML, CSS, and JavaScript. Implemented interactive features and a visually appealing design to showcase skills, projects, and professional information. This project highlights proficiency in front-end web development and design.

- ***Banking Management System • May 2021***
  Academic project in Java focusing on a banking management system. Users can log in to their profiles, perform actions such as withdrawal, deposit, and money transfer, and view their account status. Admin capabilities include creating various types of banking accounts for users..

SKILLS

- *Languages:*   Python, C, C++, Java, Latex
- *Data Science & Analysis:*   TensorFlow, Keras, Pytorch, Scikit-learn, Panda, NumPy
- *Data Visualization:*   Matplotlib, Seaborn
- *Web Programming:*   HTML, CSS, Javascript
- *Frameworks:*   Django Frameworks
- *DBMS:*   MySQL
- *Softwares and tools:*   Jupyter, Google Colab, Kaggle, Microsoft Office

STANDARDIZED TEST SCORES

Duolingo English Test   June 2022

- Overall- 105 (Literacy-110, Comprehension-115, Conversation-80, Production-75)

HONORS & ACCOLADES

Dean's Award (Offered to average GPA of 3.75 or above achievers)   Spring 2023

- Received Dean's Award for achieving an average GPA of 3.76 out of 4.00.

Dean's Award (Offered to average GPA of 3.75 or above achievers)   Fall 2022

- Received Dean's Award for achieving an average GPA of 3.78 out of 4.00.

OTHER ACTIVITIES

Host Student Volunteers

- ICPC Worlds Final Dhaka 2022

Hack-a-thon Runner Up

- 5th Inter Department Software & Hardware Carnival 2022

Programming Contest

- Participated in Intra University Programming Contest 2022

REFERENCES

- Dr. Nasima Begum
  Associate Professor
  Department of Computer Science
  University of Asia Pacific
  nasima.cse@uap-bd.edu

- Tanjina Helaly
  Assistant Professor
  Department of Computer Science
  University of Asia Pacific
  tanjina@uap-bd.edu