Saife Shuhaib Md. Enan

🌐 **saifeshuhaib.com**

Sector 6, Uttara, Dhaka
+8801575520618
enansaifme33@gmail.com
linkedin.com/in/enansaif
github.com/enansaif

Technical Skills

Python3 | JavaScript | C++ | HTML5 | CSS3 | NumPy PyTorch | TensorFlow | SciKit-Learn | Pandas | OpenCV Django | Flask | PyGame | OpenVino | Linux | Git MySql | Bootstrap | Postman | REST APIs

Experience

Software Engineer **BJIT Limited** 11/2021 – Current

- Developed an AI test automation tool for detecting changes and updating test cases in subsequent versions of a web page using Python, Django, Selenium, and Yolov7 object detection.
- Developed an Android face recognition application with a fully homomorphic encryption scheme. Additionally, improved performance by reducing file size by 93% and achieving an inference time of 1 second using C++, Microsoft SEAL, and Dlib.
- Created a Food Detection API using a custom-trained Yolov5 model to detect 13 types of Japanese food. The implementation utilized Python, PyTorch, Roboflow, Flask, OpenCV, Bootstrap, HTML, and CSS.
- Designed and implemented an Image Analyzer REST API capable of extracting age, gender, race, emotion, scene, object, context, etc., information from any image. The implementation utilized Python, Flask, OpenCV, DeepFace, and various image processing techniques.
- Worked on a desktop application to analyze and recognize faces, providing real-time emotion and landmark information using C++, OpenCV and Intel OpenVino. Additionally, improved performance by implementing parallel processing and frame skipping techniques.
- Wrote a python program that analyzes the color ratios present in an image, with the primary objective of identifying user preferences based on any given image.
- Analyzed several watermarking techniques and developed a Python script for watermarking, utilizing dwt-dct image processing algorithms to add invisible watermarks to specific sections of video frames.

Projects

- Chess AI web app: A chess game where users can play against chess bots created using various algorithms, including Classic MiniMax, CNN, and Reinforcement Learning. (Under development)
- LeetCode Flash Cards: Created a flashcard CRUD application using Django, GraphQL, HTML and Bootstrap. The application was designed to efficiently review and manage my solved questions.
- Snake Bot: Built a fully functioning snake game using Python and Pygame and trained a snake AI using reinforcement learning.
- Web Scraper: Wrote a script using BeautifulSoup to scrape image and text data from multiple websites, creating datasets specifically for training machine learning models.
- Breast Cancer Detection: Developed a custom breast cancer detection Convolutional Neural Network (CNN) model using PyTorch, capable of accurately classifying tumors into two groups

Education

B.Sc. in Electronics and Telecommunication Engineering 2021, Chittagong University of Engineering and Technology (CUET), Chittagong
CGPA: 3.58/4.00

Soft Skills

Communication | Collaboration | Persistence Patience | Adaptability | Attention to detail Time management | Leadership | Action bias

Publication

Design and Characterization of Miniaturized Implantable PIFA Antenna for MICS Band Application, 2020 IEEE Region 10 Symposium (TENSYMP)
Dhaka, Bangladesh, 2020, pp. 254-257

Achievements

- Ranked among the Top 5 teams in Robi Datathon 2.0
- Third highest scorer of BJIT Professional training
- First Place at The Idea Competition 2020, CUET

Leadership

- Vice President, CUET Photographic Society
- Hall Manager, Shaheed Md. Shah Hall, CUET
- Finance, Telemesh 1.0 by dept. of ETE, CUET