

SARAF ANZUM SHREYA

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EDUCATION

Rajshahi University of Engineering & Technology
B.Sc. in Electronics & Telecommunication Engineering
CGPA: 3.41/4.00 (Completed 6 out of 8 semesters)
Best SGPA: 3.83/4.00 (6th semester)

2022 - Present

PUBLICATIONS

A Hybrid Approach for Accurate Brain Tumor Detection Using Deep Learning Techniques 2024
1st author *Conference Paper*
· DOI: [10.1109/ICCIT64611.2024.11022592](https://doi.org/10.1109/ICCIT64611.2024.11022592)

Residual Block-Driven CNN for Accurate White Blood Cell Image Analysis and Classification 2024
4th author *Conference Paper*
· DOI: [10.1109/ICCIT64611.2024.11021843](https://doi.org/10.1109/ICCIT64611.2024.11021843)

Women Empowerment and Governance through Digitization of NGO Management Systems 2022
3rd author *Conference Paper*
· DOI: [10.1109/ICRPSET57982.2022.10188564](https://doi.org/10.1109/ICRPSET57982.2022.10188564)

PRE-PRINTS

DB-FGA-Net: Dual Backbone Frequency Gated Attention Network for Multi-Class Brain Tumor Classification with Grad-CAM Interpretability 2025
1st author *Pre-print (Undergraduate Thesis)*
· DOI: [10.48550/arXiv.2510.20299](https://doi.org/10.48550/arXiv.2510.20299)

Real-Time Currency Detection and Voice Feedback for Visually Impaired Individuals 2025
1st author *Pre-print*
· DOI: [10.48550/arXiv.2510.20267](https://doi.org/10.48550/arXiv.2510.20267)

EXPERIENCE

Redbubble August 2020 - Present
Independent Artist/Graphic designer
· Create and design unique merchandise on a global print-on-demand marketplace.
· Shop link: www.redbubble.com/people/taylor-shreya/shop

BrainStation-23 March 2025
Software Attachment (Data Scrapping and Web Development)
· Completed a two-week software-based attachment focused on web scraping and backend development.
· Developed a fully functional web data scraper using BeautifulSoup, Selenium, HTML, CSS, and Flask to extract and display dynamic web content in a user-friendly interface.
· Project repository: github.com/SarafAnzumShreya/Scrapper

PROJECTS

EchoCash

Skills: Python, HTML, CSS, JavaScript, Machine Learning, flask, Socket.IO

December 2024 - February 2025

Machine Learning Project

- Provides real-time currency recognition with voice feedback, enhancing financial independence.
- Uses voice output to announce detected currency and count total amounts.
- Showcases the practical use of AI and assistive technology in addressing accessibility challenges.
- GitHub Repository: <https://github.com/SarafAnzumShreya/EchoCash>

Avatar Me

Skills: HTML, CSS, JavaScript

August 2024

Interactive Web Development Project

- Developed a web-based application that enables users to create customized avatars with various options for clothing, accessories, hairstyles, facial hair, and hijabs.
- Designed a diverse range of customization options, including multiple colors and styles, ensuring inclusivity for different races and genders.
- Project Link: [Avatar Me](#)

Welcome to RUET

Skills: HTML, CSS, JavaScript

July 2024

Web-Based Educational Game

- Developed an interactive web game that simulates a university course enrollment system, allowing users to select a department and register for courses.
- Designed a course selection mechanism where users can take up to 15 courses, with only relevant courses contributing to their CGPA.
- Implemented a grading system where users must achieve a minimum CGPA of 2.25 to receive a completion certificate.
- Project Link: [Welcome to RUET](#)

Reverse Vending Machine

Skills: Language - c, AtMega328p, ESP32cam

August 2023 - December 2023

Electronics Project

- Bottle Recognition: The machine uses advanced technology, such as machine learning algorithms, to identify beverage container, primarily focusing on plastic bottles.
- Deposit Mechanism: The machine is equipped with a secure deposit area where users place their used beverage containers. This area ensures proper handling and containment.
- QR Code scanning: Upon depositing plastic bottle, a QR code containing users account ID is scanned for providing reward.
- Rewarding: Upon scanning the QR code, a certain amount of credit will be added to their account which can later be redeemed as usable currency.
- Bin Full Sensing: When the container or the bin is full, a message is shown alerting about the condition.
- GitHub Repository: <https://github.com/SarafAnzumShreya/RVM>

LICENSES & CERTIFICATIONS

Advanced Learning Algorithms

DeepLearning.AI, Stanford University

Jan 2025

- Credential ID: [6T7KI3YQGJNo](#)

Supervised Machine Learning: Regression and Classification

DeepLearning.AI, Stanford University

Nov 2024

- Credential ID: [Y98I5S6QCI3W](#)

TECHNICAL STRENGTHS

Programming Languages	C, C++, Python, HTML, CSS, JavaScript
Machine Learning	TensorFlow, Keras, Scikit-learn, OpenCV, YOLO, CNN
Databases	MySQL
Tools	Canva, AutoCAD, MATLAB, Mathematica, Arduino, ESP32-CAM, Flask

EXTRA-CURRICULAR ACTIVITIES

Huawei Seeds For The Future 2025

2025

Finalist

- Competed a comprehensive 40-hour program featuring expert-led instruction in cutting-edge technologies: 5G, Artificial intelligence, Cloud Computing and Digital Power.
- From initial 3500+ applicants only 21 was chosen for the final round after several evaluations such interviews, written exams, group evaluation, group presentation.
- Collaborated on a team-based tech business project, demonstrating skills in leadership, problem-solving and entrepreneurship.

Cognizant 2.0 Case Competition

2023

1st Runner-up

- Competed in a case competition focused on identifying and mitigating fire hazards in Bangladesh's garment industry.
- Developed an innovative and data-driven solution, securing 1st runner-up position out of 57 participating teams.

Line Following Robot (LFR) Competition

2022

Participant

- Designed and implemented an autonomous line-following robot for the 'ETEchnovation-2022' event, organized by the Electronics and Telecommunication Department of RUET.
- Gained hands-on experience in embedded systems, robotics, and sensor integration.

Volunteer, ETEchnovation

2022

- Assisted in organizing and managing ETEchnovation, a departmental technical event at RUET.
- Contributed to event coordination, logistics, and participant engagement, enhancing teamwork and organizational skills.

Competitive Programming

2022 - 2023

- Participated in multiple competitive programming contests, improving algorithmic problem-solving and logical thinking.
- Collaborated in team-based competitions, strengthening teamwork and strategic coding abilities.

IMPORTANT LINKS

LinkedIn - <https://www.linkedin.com/in/saraf-anzum-shreya-519275226>

Google Scholar - <https://scholar.google.com/citations?user=1A1h6EAAAAAJ&hl=en>

GitHub - <https://github.com/SarafAnzumShreya>

Portfolio Website - <https://sarafanzumshreya.github.io>

Email - sasshreya2001@gmail.com