

SARAF ANZUM SHREYA

House 23, sector 03 ◇ Uttara, Dhaka - 1230 ◇ Bangladesh
(880) · 1824 · 332236 ◇ sasshreyaz001@gmail.com

EDUCATION

Rajshahi University of Engineering & Technology

2022 - Present

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)

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/Scraper

PROJECTS

EchoCash

December 2024 - February 2025

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

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

August 2024

Skills: HTML, CSS, JavaScript

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

July 2024

Skills: HTML, CSS, JavaScript

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

August 2023 - December 2023

skills: Language - c, AtMega328p, ESP32cam

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 with 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

Jan 2025

DeepLearning.AI, Stanford University

- Credential ID: [6T7KI3YQGJNo](#)

Supervised Machine Learning: Regression and Classification

Nov 2024

DeepLearning.AI, Stanford University

- 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 <i>Finalist</i>	2025
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- Completed 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 <i>1st Runner-up</i>	2023
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- 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 <i>Participant</i>	2022
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- 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
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- 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
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- 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