Sayok Bose

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EDUCATION:

Texas A&M University, Computer Science

- Sophomore in Engineering Honors with a 3.88 GPA.

EXPERIENCE:

Internship at Sonomatic, JLSM Project: *Jun 2023 - Aug 2023*

- The Joint Large Standoff Magnetometry Research Project (JLSM) is an emerging non-intrusive passive geo-magnetization flux leakage measurement technology to detect pipeline anomalies.
- Developed user-friendly GUI using Python and PyQt5 for efficient data scraping from magnetometers, streamlining the handling of extensive data for NDT inspection of deep sea pipe inspection.
- Utilized Matplotlib and Pandas to organize and create line graphs and 3D meshes, simplifying defect visualization on civilian and deep-sea pipes with an extensive use of hash maps, lists, inheritance and more.

Tutoring *May 2020-Oct 2022*

- Created my own tutoring service where I advertised myself whilst implementing progress monitoring techniques in order to teach multiple children, grades 3rd-11th grade.

Tutoring Club *May 2023- Current*

- Provided individualized academic tutoring to students, fostering improved understanding of subjects and enhanced study habits, resulting in measurable academic progress.

Personal Projects *April 2022-Current*

- Satisfaction Detector: Engineering a program utilizing OpenCV2 and deepface, leveraging a Convolutional Neural Network to accurately classify 7 distinct human emotions which then determines a customers satisfaction. The program efficiently records and logs unique customer faces' satisfaction via the devices camera which is then transferred from a database into PowerBI using DAX for intuitive data visualization for business owners helping them to make decisions.
- Face Identifier: Developed a Python program using OpenCV2 and machine learning for computer vision focused on facial detection, integrated with a PyQt5 GUI. This application assists professional photographers, like RajBose Photography, in organizing photos by grouping them based on detected faces. Created alongside my colleague using Git and Github for version control.
- Wordle: Developed a fully functioning replica of the popular game 'Wordle' using Java, JFrame, java.awt.event.
- EzTip: Fully developed a website to help users calculate their total after choosing their choice of tip. Self-taught HTML, CSS, and JavaScript in order to create a visually appealing and functioning website.

AWARDS:

Brown Scholar - Craig and Galen Brown Foundation *Feb 2022-Current*

- The Craig and Galen Brown Foundation scholarship, which, along with the President Endowed Scholarship, gives me a full ride, $100,000+ scholarship to attend A&M, was awarded to me for demonstrating high academic achievement along with being a National Merit Finalist, involvement in extracurricular activities and community service, leadership, and excellent people and communication skills.

Certificate in an Introduction to Mobile Computing (Meta) *January 2023*
Certificate in Programming With Javascript (Meta) *May 2023*
Certificate in Version Control (Meta) *May 2023*

SKILLS:

Python, HTML, CSS, Java, Javascript, C++, Communication, Adept learner