SHAMPA BANIK

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RESEARCH INTERESTS

Image Processing, Computer Vision, Natural Language Processing, Deep learning

EDUCATION

Patuakhali Science & Technology University (PSTU)

January 2018 — October 2023

B.Sc. in Computer Science and Engineering (Dean's List last three Semesters) Cumulative GPA: 3.84/4.00 (Rank: 1/49) Thesis Title:

APPOINTMENTS

Bangladesh University of Business and Technology (BUBT)

Dhaka, Bangladesh

Lecturer

July 2024 — Present

Conducting Courses: System Analysis and Design, Numerical Analysis and Computer Operation & Applications.

University of Scholars

Dhaka, Bangladesh

Lecturer

November 2023 — June 2024

Conducting Courses: Data Structure and Algorithms, Software Engineering, Computer Fundamentals, Numerical Analysis, Competitive Programming and Technical Writing.

HONORS AND AWARDS

PSTU Dean's Merit Award: Awarded scholarships for academic excellence among 70 students from session 2019 to 2021.

PSTU IT Carnival: First Prize for the "IOT-Based Food Spoilage Detection System" project at IT Carnival.

NGPC'18: Selected for the National Girls Programming Contest (NGPC) in both 2019 and 2021.

PSTU Independent Day Programming Contest: Ranked in the top 5 out of 50 teams in 2018.

Merit Scholarships: Government Board Merit scholarships for outstanding results in both Secondary School Certificate (2015) and Junior School Certificate (2012).

SELECTED PROJECTS

D-Alert: Dengue Prediction using Machine Learning | Python

Jan 2023

 Built a dengue dataset from DGHS data, developed an LSTM model for area-based dengue prediction, and bench-marked against three models.

SmartSpoil: IOT Based Food Soilage Detection System | Arduino

July 2021

• Developed an IoT-based system using Arduino to monitor and detect food spoilage. The system utilizes sensors to track key freshness indicators, providing real-time alerts to ensure food safety.

Eatsy: Web Application for Food Ordering | HTML, CSS, Bootstrap, PHP, JavaScript, MS-SQL August 2022

• Developed a smart food ordering app using modern development tools and software design principles to ensure fast connectivity, efficient data management, and a modular system architecture.

WellnessWise: A Desktop Application for Healthcare Management | Java, System Design August 2022

• Built a healthcare management desktop app using Java and MS-SQL, employing OOP principles for efficient management of patient records and appointments, ensuring modularity and scalabilit.

Publications

Journal Papers

• Submitted: "Efficient and Accurate Classification of Watermelon Diseases using CucurbitViT: A Vision Transformer Based Approach." First Author

Conference Papers

- Accepted: "A Novel Classification Scheme for Early Alzheimer's Disease (AD) Severity Diagnosis Using Deep Features of a Hybrid Cascade Attention Architecture." Second Author
- Submitted: "Classifying Bengali Quotes: A Comparative Study of Machine Learning and Deep Learning Approaches." Second Author

TECHNICAL SKILLS

- Programming Languages:: Python, Java, C, C++, Javascript, HTML, CSS, MATLAB, Assembly
- Machine Learning: PyTorch, Keras, OpenCV, TensorFlow, NLTK, Pandas, NumPy, Matplotlib
- Developer Tools: VS Code, CodeBlocks, LATEX, PyCharm, Jupyter Notebook, Eclipse
- Frameworks: Linux, Bootstrap, Arduino
- Version Control: Git, Github
- Illustration Tools: Proficient in Adobe Illustrator, Adobe Photoshop

SELECTED CO-CURRICULAR ACTIVITIES AND SERVICES

- Created hundreds of digital artwork and logo designs
- Member, Sub-Committee (Project), CSE Club, PSTU:
 Contributed to organizing and implementing projects, fostering innovation within the club. September 2021 October 2023
- Volunteer, Communication Team Talk Digital Platform (Way to Dreams):
 Assisted with communication efforts, audience engagement, and content outreach. August 2021 October 2021
- An Article published in Medium in 2020- Beyond the Boom: Unraveling the Complexity of AI in 2030