SAMIHA SHAFIQ ANUVA

Website ◇ Email ◇ LinkedIn ◇ GitHub ◇ Google Scholar

EDUCATION

BSc. in Computer Science and Engineering,   CGPA: 3.64 (Out of 4.00)
Islamic University of Technology   May, 2023

RESEARCH INTERESTS

Human Computer Interaction | Natural Language Processing | Data Visualization | Machine Learning

RESEARCH EXPERIENCE

❏ **Natural Language Processing**

- **Unveiling the Essence of Poetry: Introducing a Comprehensive Dataset and Benchmark for Poem Summarization.**

  Accepted at EMNLP 2023 ↗

  This work benchmarks the creative language understanding and summarizing capacity of language models and highlights numerous short-comings of prevalent text summarization models.

❏ **Computer Vision**

- **A Comparative Analysis of Efficient Convolutional Neural Network Based Methods for Plant Disease Classification.**

  Accepted at ICCIT 2023 ↗

  The work delves into the complexities of plant disease classification, covering aspects such as available datasets, transfer learning, and a comparative analysis of lightweight CNN models for leaf disease.

- **Improving Weight Excitation for Convolutional Neural Network and MLP Mixer.**

  Our work explores potential improvements to weight excitation. This attention mechanism locates and amplifies crucial weights in a model by applying extra attention and reducing the effect of less important weights.

PROFESSIONAL EXPERIENCE

York University   November 1, 2024 - Present
Research Engineer

- Human-AI collaboration for data visualization.
- Eye tracking for accessible Natural Language Interface (NLI).
- Training students and research assistants on the proper use and operation of lab equipment.

Synesis IT   October 12, 2023 - July 31, 2024
Junior UI/UX Designer

- User research, design, prototyping, and testing, along with close collaboration with developers
- Worked on diverse projects for key Bangladesh Government initiatives, including the National Job Portal, Local Consultative Group (LCG), EkPay and DGHS.

Revinr IT   August 3, 2023 - October 12, 2023
UI/UX Designer

Worked with various local and international institutions like - United International University, eMediadesk.

DataSoft Systems Bangladesh Limited   **June 2022 - August 2022**
Mobile App Development Intern

TECHNICAL SKILLS

- ❏ **Language-** C++, Java, JavaScript, Python, Dart
- ❏ **Database-** Oracle, MySQL, Firestore, NoSQL, HIVE
- ❏ **Machine Learning-** TensorFlow, Pytorch
- ❏ **UI/UX Design-** Figma, AdobeXD, Adobe Illustrator
- ❏ **Frontend-** React, Flutter, WordPress
- ❏ **Backend-** Node, Firebase
- ❏ **Others-** Tobii Pro Lab, Git, Bash, Linux, GCP, LaTeX
- ❏ **Design Portfolio-** Dribbble

PROFESSIONAL PROJECTS

National Job Portal ⬈   **Role: UI/UX Research & Design**
Designed the Website and Mobile App for the National Job Portal of Bangladesh. My responsibilities included - UX research, requirement collection, conducting design workshops with stakeholders, UI/UX design, and collaborating with developers & testers.

Local Consultative Government Website ⬈   **Role: UI/UX Design, Web Development**
Designed and developed the website for Local Consultative Government which functions as the main forum for development coordination and policy dialogue between the Government and Development Partners in Bangladesh.

United International University Website ⬈   **Role: UI/UX Design**
Designed the website for United International University (UIU).

UNDERGRADUATE PROJECTS

Plant Care ⬈   **Python, TensorFlow, ReactJs**
An app for plant disease classification where users can upload photos of their plants to detect diseases.

ClickWork ⬈   **ReactJs, Django, SQLite3**
A freelance website which acts as a platform for connecting clients and freelancers.

Geometry Box ⬈   **Python, Tkinter**
An app that acts as a geometrical tool for students and teachers. There are 3 parts in this app - Canvas, Daily Geometry, and Equation Visualizer.

E-Cashier ⬈   **C++**
A point of sale system for a supermarket. Developed using C++ for an object-oriented programming course.

CERTIFICATION

- Neural Networks and Deep Learning by DeepLearning.ai   2022
- Python Data Structures by University of Michigan   2020
- SQL for Data Science by University of California, Davis   2020
- Web Design for Everybody: Basics of Web Development and Coding Specialization University of Michigan 2020
- Foundations of User Experience (UX) Design Google   2023
- Foundations of Eye Tracking Tobii Academy   2024
- Eye Tracking in UX Study Tobii Academy   2024

EXTRA-CURRICULAR ACTIVITIES

- Former Logistics and Operations (Design) Executive in IUT Computer Society   2022
- Former Head of Creative in IUT Debating Society   2021
- Former Head of Event Management in IUT Debating Society   2022
- Digital Art and 3D Modelling