Sumaiya Siddiqua Mumu

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SUMMARY

Eager to leverage my creativity and passion for web technologies and artificial intelligence in a dynamic role encompassing front-end development and machine learning. With self-taught skills in JavaScript, CSS, and HTML, I aim to create user-centric web solutions that enhance engagement through intuitive design and functionality. Adept in technical writing and reviewing, I am focused on enhancing leadership competencies and aligning team efforts to drive organizational goals forward.

SKILLS

- **Coding Languages:** C, C++, Python, Java, Javascript, HTML, CSS
- **AI/ML Tools:** TensorFlow, Colab, Scikit-learn, Keras
- **Concepts:** Deep Learning, Machine Learning, SDLC
- **Databases:** MySQL, Oracle
- **Other:** Git, WordPress, G Suite, Selenium

EXPERIENCE

- **Webmaster | IEEE AUST Student Branch** (2023-2024)
  In charge of developing and maintaining custom-theme for their official website.
  - WordPress, HTML, CSS, Bootstrap, JavaScript

ACADEMIC RESEARCH AND PROJECTS

- **Enhancing Heatwave Predictability in Bangladesh through Deep Learning Approaches.** *Link* (2024)
  Researched deep learning attention-based hybrid models to improve heatwave anticipation by obtaining a 96% accuracy rate and multi-step-ahead forecasting of temperature and humidity, enhancing heatwave anticipation
  - Models - LSTM, GRU, Attention-based Conv1D+LSTM and Conv1D+GRU.
- **Deep Learning Approaches for Multi-Target Weather Patterns Forecasting in Bangladesh.** *Link* (2023)
  The research aimed to address the challenges in weather pattern prediction for different cities in Bangladesh.
  - The research used 3 deep learning models: CNN(Conv1D), LSTM, and GRU.
- **Diabetes Prediction: A Comprehensive Study Integrating Deep Learning and Machine Learning Approaches.** *Link* (2023)
  The rising use of machine learning and deep learning techniques is improving diabetes prediction with the highest accuracy, at 85%.
  - The research evaluated SVM, MLP, Random Forest, KNN, and Decision Tree, using the Pima Indian dataset
- **Draft (A Blogging Website)** *Link* (2022)
  Draft is a dynamic blogging platform that empowers users to craft and share their thoughts seamlessly.
  - It was developed using HTML, CSS, JS, PHP and MySQL.
- **Onset (A Task Management)** *Link* (2022)
  Onset, a task management tool, has been prepared based on available data user forecasts and other management tools.
  - It was developed using MVC based on the concept of SDLC.

EDUCATION

- Ahsanullah University of Science and Technology, Dhaka
  B.Sc. in Computer Science and Engineering — CGPA: 3.59 | (2024)
- Viqarunnisa Noon School & College, Dhaka — GPA: 5.0 | (2019)
- Ideal School & College, Motijheel, Dhaka — GPA: 5.0 | (2017)

REFERENCE

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