Farhat Tasnim Progga

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EDUCATION

Marquette University — Milwaukee, USA
PhD in Computer Science; Current CGPA: 3.94 — *Aug 2021 - Present*

Courses: *Social and Ethical Computing, Data Mining, Data Ethics, Data Analytics*

North South University — Milwaukee, USA
BSc in Computer Science; CGPA: 3.56 — *Jan 2016 - Jan 2020*

Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Software Engineering, Machine Learning, Networking, Databases*

EXPERIENCE

Marquette University — Milwaukee, USA
Graduate Research Assistant — *Aug 2021 - Present*
- **Responsibilities**: Conducting researches on Human-Computer Interaction at **Social & Ethical Computing Lab**

Therap BD Ltd — Dhaka, Bangladesh
Associate Software Engineer, QA — *Jul 2020 - Jul 2021*
- **Responsibilities**: Reviewing quality specifications, creating test cases and technical design documents to provide timely with meaningful feedback.

North South University — Dhaka, Bangladesh
Teaching Assistant — *Jan 2029 - Jun 2020*
- **Responsibilities**: Supported student learning objectives through personalized and small group assistance to support classroom instructions.

PROJECTS

- **Designing Technology for Enhancing Perinatal Mental Health Support**: Through data analysis of several interview study data, survey data, and scraped data from online mental health communities, we explore perinatal mental health storytelling behavior on major online platforms. My study objective is to analyze existing technologies that assist storytelling behavior for perinatal mental healthcare to answer particular research questions and, as a result, to design a new technology to assess those vulnerable women. This project is supervised by **Dr. Sabirat Rubya**.

- **A Deep Learning Based Approach to Child Labour Detection (Undergrad Thesis)**: Given the scarcity of openly available data on child laborers in the South Asian region, a new data set of this type has been developed in this project. A CNN-based model for identifying child labor was created using the data set. Furthermore, the resulting accuracy has been compared for improved perception utilizing two well-known transfer learning approaches.

PUBLICATIONS

- **Progga, F.T.**, & Rubya, S. **"Just like Therapy!": Investigating the Potential of Storytelling in Online Postpartum Depression Communities** *2023 International Conference on Supporting Group Work (GROUP).* ACM. (Accepted)

- **Progga, F.T.**, Kumar, A. S., & Rubya, S. **Understanding the Online Social Support Dynamics for Postpartum Depression.** *2023 CHI Conference on Human Factors in Computing Systems.* ACM. (Under Review)

- **Progga, F.T.**,Shahria, M. T., Arisha, A., & Ahmed, M.U. **A Deep Learning Based Approach to Child Labour Detection.** *6th Information Technology International Seminar Virtual Conference 2020 (ITIS2020).* IEEE.

- **Progga, F.T.**,Shahria, M. T., & Ahmed, N. **The Effectiveness and Acceptance of Collaborative E-learning in the Context of Bangladesh.** *In 2020 IEEE International Conference on Engineering, Technology and Education (TALE2020).* IEEE.

- **Progga, F.T.**, Shahriar, H., Zhang, C., & Valero, M. **AI and Blockchain for Vehicular Network: A Review.** *In Artificial intelligence and Blockchain for Future Cybersecurity Applications by Springer "Studies in Big Data".* Springer.

- Shahria, M. T., **Progga, F.T.**, Arisha, A.,& Ahmed, S. **Application of Neural Networks for Detection of Sexual Harassment in Workplace.** *In 2021 IEEE International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2021).* IEEE.

- **Progga, F.T.**, Rubya S. **"Please tell me I'm not the only one...": Understanding Online Support-Seeking for Postpartum Depression.** *In CRA-WP Grad Cohort for Women; 22nd April, 2022; New Orleans, USA* (Presentation).

SKILLS

- **Programming Skills**:   C, Java, PHP, Python, R, MySQL, Machine Learning, Deep Learning, Microsoft Office
- **Data Management**:   Data Analysis, Data Quality Assessment, Database Design and Management, Data Mining
- **User Research**:   Interview Study, Survey Creation, Quantitative Analysis , Qualitative Analysis, Ground Theory
- **Soft Skills**:   Leadership, Technical Writing, Public Speaking, Collaborative, Resourcefulness, Agility

VOLUNTEER EXPERIENCE

IEEE North South University Women in Engineering Affinity Group — Dhaka, Bangladesh
Served as the treasurer — *Jan. 2018 - Jan.2020*

IEEE Student Professional Awareness Conference (SPAC) — Dhaka, Bangladesh
Served as an organizer — *2018*