SABID BIN HABIB PIAS

(+1) · 812 · 272 · 6195 ⬦ sabidbinhabib@gmail.com ⬦ LinkedIn ⬦ Google Scholar

EDUCATION

Indiana University Bloomington   *August 2019-December 2024*
Ph.D. in Computer Science

· **Research Interest**: Human-Centered AI, Human-Computer Interaction, Data Visualization

Bangladesh University of Engineering and Technology   *Graduated March 2016*
Bachelor of Science in Computer Science & Engineering

RESEARCH EXPERIENCE

Indiana University Privacy Lab   *August 2019 - Present*
Graduate Research Assistant

- **Trustworthiness and Persuasiveness of Voice Assistants (VA)**: Evaluated the user perception of emotion, age, and gender variations in VAs in the form of trust and persuasiveness through quantitative usability study and structured surveys; recommended design strategies to improve user trust in VAs, optimizing user experiences and decision-making in specific contexts
- **Bitrotting Photos for Enhanced Privacy**: Proposed two temporal redaction methods for enhancing privacy in photo sharing that 17-21% participants preferred for 'non-sensitive' photos. Authored and presented a full research paper at CSCW 2022 (**PDF**)

INDUSTRY EXPERIENCE

Idaho National Lab   *June 2023 - August 2023*
Python Programmer Intern

- **Explainable AI (XAI) in Power Plant Fault Prediction**: Optimized water pump fault prediction using ML techniques (Random Forest, SVM) on imbalanced data for multiclass classification; designed an Explainable AI interface enhancing user experience with visual insights (Python, LIME, SHAP, PyQT)

Field Buzz (Dhaka, Bangladesh)   *January 2017 - May 2019*
Software Engineer

- Collaborated with consultants to extract technical requirements; Produced extensive technical reports
- Built data integrity library with an offline data sync mechanism (Android, SQLite, REST)(**Playstore**)

ACADEMIC PROJECTS

- **Animal Detection from Images**: Designed CNN based architectures and used transfer learning with EfficientDet-D7 for detecting animals from an image subset of 'Open Image Dataset V6' (**Notebook**)
- **Music Genre Classification from Waveform Audio**: Designed and compared CNN, RNN and Transfer Learning based architectures for music genre classification on 'GTZAN' dataset (**Notebook**)

PUBLICATIONS

- **Sabid Bin Habib Pias**, Imtiaz Ahmad, Taslima Akter, Adam J. Lee, and Apu Kapadia. Decaying Photos for Enhanced Privacy: User Perceptions Towards Temporal Redactions and Trusted Platforms. In *ACM Conference On Computer-Supported Cooperative Work, CSCW 2022*

- **Sabid Bin Habib Pias**, Donald Williamson, Ran Huang, Apu Kapadia, and Minjeong Kim. Understanding the Persuasiveness and Trustworthiness of Voice Assistants Based on Perceived Emotion, Age, and Gender. In *ACM Conference on Human Factors in Computing Systems, CHI 2024* (*Under Review*)

TECHNICAL SKILLS

Languages and Frameworks Python, R, Java, PyTorch, TensorFlow, PyQt, LIME, SHAP
Other Git, Shell, Latex, Qualtrics, PostgreSQL, Oracle, SQLite, REST, Maven