

SABID BIN HABIB PIAS

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EDUCATION

Indiana University Bloomington

Ph.D. in Computer Science

August 2019-December 2024 (Expected)

· **Research Interest:** Human-Centered AI, Responsible AI, Machine Learning, UX Research

Bangladesh University of Engineering and Technology

Bachelor of Science in Computer Science & Engineering

Graduated March 2016

TECHNICAL SKILLS

Languages and Frameworks Python, R, JavaScript, Flask, PyTorch, PyQt, LIME, SHAP

Other Git, Shell, Latex, Qualtrics, Overleaf, Zotero, SQLite, REST, OpenAI API

RESEARCH EXPERIENCE

Indiana University Privacy Lab

Graduate Research Assistant

August 2019 - Present

- **Persuasiveness of Conversational Agents' (CA) Vocal Tone:** Investigated the impact of CAs' vocal tones on user engagement, identifying preferences for positive and neutral tones through qualitative and quantitative analysis. Received the **best paper award** at ACM CUI 2024. [[PDF](#)]
- **Bitrotting Photos for Enhanced Privacy:** Proposed two temporal redaction methods for enhancing privacy in photo sharing; evaluated the proposed methods in a user study, where 17-21% participants preferred for 'non-sensitive' photos. Published and presented the paper at ACM CSCW 2022 ([PDF](#))

INDUSTRY EXPERIENCE

Idaho National Lab

Python Programmer Intern

June 2023 - August 2023

- **Explainable AI (XAI) in Power Plant Fault Prediction:** Designed an Explainable AI prototype interface enhancing user interpretability with visual insights; optimized water pump fault prediction using ML techniques (Random Forest, SVM) on imbalanced data (Python, LIME, SHAP, PyQT)

Field Buzz (Dhaka, Bangladesh)

Software Engineer

January 2017 - May 2019

- 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**, Ran Huang, Donald Williamson, Minjeong Kim, and Apu Kapadia. The Impact of Perceived Tone, Age, and Gender on Voice Assistant Persuasiveness in the Context of Product Recommendations. In *ACM Conference on Conversational User Interface, CUI 2024* (**Best Paper**)
- **Sabid Bin Habib Pias**, Alicia Frele, Timothy Trammel, Taslima Akter, Donald Williamson, and Apu Kapadia: The Drawback of Insight: Detailed Explanations Can Reduce Agreement with XAI In *ACM CHI Workshop on Human Centered Explainable AI, HCXAI@CHI 2024*

- **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*