SABID BIN HABIB PIAS

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EDUCATION

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

· **Research Interest**: Human-AI interaction, Speech Synthesis, Privacy Enhancing Technologies

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

- **Decaying Photos for Enhanced Privacy**: Proposed two temporal redaction methods for photo sharing and found 17-21% participants prefer the proposed methods for 'non-sensitive' photos (**PDF**)
- **Understanding User Agreement with Explainable AI**: Evaluated user agreement patterns with an IA (Intelligent Agent) when the IA interprets it's image classification with varying explanations. Found positive effects of explanations in incorrect classifications
- **Towards the Persuasiveness of Smart Voice Assistants**: Synthesized human voices with varying voice characteristics and study if users can be persuaded in online shopping if smart voice assistants communicate through these voices

INDUSTRY EXPERIENCE

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

- Led and managed the *Point of sales management* mobile system design team (Android, Git) (**Playstore**)
- Built base data integrity library with an offline data sync mechanism (Java, Android, SQLite, REST)
- Developed survey builder library to dynamically load survey questions of varying structures on mobile devices (Java, Android, Maven, Room) (**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**)
- **Acoustic Event Detection**: Explored varying fine-tuning based Transfer Learning schemes for Acoustic event classification from 'Google Audioset' embeddings (**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**, Timothy Trammel, Alicia Freel, Taslima Akter, Apu Kapadia, and Donald Williamson: Assessing Human Agreement with Artificially Intelligent Classifiers Based on Explanation Detail. In *ACM Conference On Intelligent User Interfaces, IUI 2023* (Under Review)

TECHNICAL SKILLS

Languages and Frameworks Python, R, Java, PyTorch, Keras, TensorFlow, Scikit learn, SciPy
Other Git, Shell, Latex, Qualtrics, PostgreSQL, Oracle, SQLite, REST, Maven