SABID BIN HABIB PIAS

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SUMMARY

Human-centered AI researcher with 4 years of experience in AI prototype development, and statistical and qualitative analysis. Specialized in applying responsible AI principles to develop user-centric solutions, deliver actionable insights, and improve system transparency, safety, and usability. Proficient in LLM fine-tuning and evaluation for conversational AI research.

EDUCATION

Indiana University Bloomington *Expected Graduation: May 2025*
Ph.D. in Computer Science

· **Interest**: Responsible AI, LLM Fine tuning and Evaluation, User-Centric Design

TECHNICAL SKILLS

Languages and Frameworks	Python, R, JavaScript, Flask, React, PyTorch, PyQt, LIME, SHAP
Data Analyses	Regression, Mixed Effect Model, Factor Analysis, Clustering, ANOVA
Other	Qualtrics, Latex, Zotero, GPT API, Amazon Skills, Git

RESEARCH EXPERIENCE

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

- **Persuasiveness of Conversational Agents' (CA) in Online Shopping**: Investigated the impact of CAs' anthropometric vocal tones on consumer engagement, identifying preferences for positive and neutral tones through simulated user studies and mixed-methods analysis. Uncovered usability insights aligned with user profiles. Received the **best paper award** at ACM CUI 2024. [**PDF**]
- **User-Centered XAI**: Conducted usability research on explainable AI (XAI), analyzing how user profiles, including personality and tech comfort, impact acceptance of AI decisions. Proposed tailored XAI designs to enhance usability, presented in ACM CHI 2024 workshop on Human-Centered XAI (HCXAI).
- **Decision Awareness in LLM Recommendations**: Designed and prototyped a voice agent using GPT-4 and Amazon Polly, incorporating linguistic interventions. Conducted semi-structured qualitative studies to evaluate whether these interventions improve users' decision-making awareness.

INDUSTRY EXPERIENCE

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

- **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, PyTorch)

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 Freel, 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 at 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*