Shristi Shrestha

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About me

I am pursuing a Ph.D. in Computer Science under the supervision of Dr. Anas Mahmoud. My research primarily focuses on the applications of Large Language Models to address the needs of mobile application (app) users and developers. Our research goals include building informational systems to enable users in making informed app-related decisions (e.g., install) and assisting developers in their app development and release processes. I apply natural language processing (NLP), qualitative analysis, and statistical methods to extract insights from user reviews and app design practices. I also investigate app store policies on app testing & review and conduct user studies to examine their impact on app developers. So far, our research team has proposed and empirically evaluated AI-driven design strategies to enhance mobile app store utility. We have also proposed several actionable strategies to effectively implement app store policies on app testing and feature requirements.

Education

- **Louisiana State University** Aug 2022 - Dec 2025 (expected)
  Ph.D. Candidate in Computer Science; GPA 3.91
  Dissertation title: "Leveraging Large Language Models to Enhance the Utility of Mobile App Store Rating Systems"
- **Tribhuwan University, Pulchowk Campus** November 2015 - September 2019
  Bachelor in Computer Engineering; GPA 3.75

Research Interests

Software Engineering | Requirement Engineering | Natural Language Processing | App Store Requirement Analysis | Dark Pattern Design Analysis | Human Computer Interactions

Publications

Generating Rate Features for Mobile Applications (★Best Presentation)
S. Shrestha and A. Mahmoud, International Conference on Mobile Software Engineering and Systems (**MobileSoft**), 2024.

No Country for Indie Developers: A Study of Google Play's Closed Testing Requirements for New Personal Developer Accounts
G. Shrestha, **S. Shrestha**, and A. Mahmoud, ACM Transactions on Software Engineering and Methodology (**TOSEM**), 2025.

Mobile Application Review Summarization using Chain of Density Prompting (Minor Review)
S. Shrestha and A. Mahmoud, Automated Software Engineering Journal (**ASEJ**), 2025.

A Study of the Apple App Store Account Deletion Requirements (Under Review)
S. Shrestha and A. Mahmoud, IEEE International Requirements Engineering Conference (**RE**), 2025.

Work Experience

- **Louisiana State University**
  Programming Lab Assistant (3 hr, 30 students) *Since 2022*
  Supervised first-year undergraduate computer students in their lab assignments for the "Introduction to the Java programming language" course.
  Graduate Teaching Assistant (3 hr, 100+ students)
  Offer assistance in grading midterm and final exams for two courses: "Software Systems Design" and "Programming Language."
- **Sireto Technology**
  Intern, Software Developer (Full-time) *Nov 2019 - July 2022*
  Developed web and mobile applications for the company including art e-commerce platform, survey form builder, and business profile verification tools.

Technical Skills

- **Programming Languages**: Python, Java, Kotlin, JavaScript (JS), SQL, C/C++, Dart
- **Frameworks & Tools**: SpringBoot, Next.js, React (library), Flutter (SDK), Figma, NLTK, Git
- **Cloud Technologies**: Firebase (Auth, Functions, FireStore, NextJS integration), AWS
- **Database**: PostgreSQL, MongoDB, Elasticsearch, HBase

Related Coursework

Software Engineering | Advanced Operating System | Advanced Algorithm and Analysis | Programming Language Structures | Deep Learning | Natural Language Processing | Big Data | Cloud Enterprise Systems | Statistics

References

Available Upon Request.