Humaira Mir Prothoma

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🔗 Academic Portfolio   🔗 linkedin.com/in/humairamirprothoma

Education

B.Sc in Computer Science and Engineering, *BRAC University*   2019 – 2023
CGPA - 3.44/.00

Professional Experience

Training & Content Specialist, *Therap (BD)*   08/2024 – Present

- Develop technical content, user guides, and release documentation for multiple software modules.
- Collaborate with developers, QA engineers, and designers to improve product usability.
- Utilize AI tools (MaestroQA, Heygen, NotebookLM) and prompt engineering to automate QA workflows and content generation.
- Troubleshoot complex user issues and contribute to API integration documentation.

Research Experience

Undergraduate Thesis — BRAC University *Real-time Unwanted Scenes Detection and Blurring*
- Built a content moderation system using computer vision to safeguard children from inappropriate media.
- Benchmarked YOLOv6 against other detection algorithms for speed and accuracy.
- Applied OpenCV for automated real-time blurring of detected content.

Technical Projects

KineiFelbo.com (Online Shopping Management System)
Tech Stack: HTML, CSS, PHP, Java, MySQL
- Designed and developed a web-based e-commerce platform as part of a team project
- Implemented product catalog, shopping cart, and order management modules
- Strengthened skills in full-stack development and collaborative software engineering

Kokhon Chai Delivery (Delivery Service Android App)
Tech Stack: Java, Android Studio, Firebase
- Built an Android application for local delivery service, enabling order placement and real-time updates
- Integrated Firebase for authentication and cloud-based data storage
- Gained practical experience in Android-specific concepts and mobile UI design

GRE Practice Web Application (Ongoing, Personal Project)
Tech Stack: HTML, CSS, JavaScript
- Developing an interactive platform for GRE Quant & Verbal practice, vocabulary learning, and full-length mock tests
- Implemented dynamic question rendering, progress tracking, and user-friendly UI/UX design
- Focused on building scalable and engaging educational technology tools

Research Interest

I am deeply interested in understanding how people use and experience technology, and I want to design systems that make their lives easier and more meaningful.

- **Human-Computer Interaction (HCI):** Creating simple, intuitive, and user-friendly interfaces by studying how people interact with technology in real-life situations.
- **Accessibility:** Building inclusive digital tools that can be used by people with different abilities and needs, so no one is left out of technological progress.
- **Health Informatics:** Exploring ways to use data and technology to improve healthcare, make patient care safer, and help doctors make better decisions.
- **Information Retrieval (IR):** Developing smarter systems to organize, search, and retrieve useful information from large amounts of data quickly and accurately.

I hope to combine these areas to build technologies that are not only effective, but also ethical, inclusive, and impactful for real people.

Technical Skills

Programming Languages
- Java (Android app development — *Kokhon Chai Delivery*)
- JavaScript (Web interactivity — *GRE Practice App*)
- Python (Problem-solving and automation tasks)

Web Development
- HTML, CSS, PHP (Full-stack development — *KineiFelbo.com*)

Databases
- MySQL (Used in e-commerce platform backend design)
- Firebase (Integrated into Android app for cloud storage & authentication)

Tools & Platforms
- Git (Version control), Salesforce (Workflow support), VS Code, Android Studio, WordPress

AI / ML & Automation Tools
- MaestroQA, Heygen, NotebookLM (Used for QA automation and content generation)

Documentation & Productivity
- Microsoft Office Suite, Google Workspace

Standardized Test Scores

IELTS
7.5 (L: 8.0 | R: 8.0 | W: 6.5 | S: 7.5)

GRE
304 (Q: 159 | V: 145 | AWA: 3.5)