ALFAZ UDDIN EMON
AI Enthusiast || Frontend Developer
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Github   LinkedIn   Portfolio

OBJECTIVE

I'm to contribute to projects that prioritize clean code, responsive design, and accessibility standards. I am committed to staying updated with the latest technologies and best practices in web development to deliver high-quality solutions that meet both user and business needs.

SKILLS

Programming: C, C++, Python, JavaScript

Web Development: HTML, CSS, React, Node.js

Databases: SQL (MySQL), MongoDB

Tools: Git, GitHub, VS Code, Google Colab, Kaggle, OpenCV, Ubuntu Linux

PROJECTS

Life-Soundtrack-Generator   Live Link

Developed a Life Soundtrack Generator that creates personalized music playlists based on users' moods. Users can hear songs matching their current emotions, enhancing their listening experience.

Features:

- Mood-based playlist generation using user input

- Integration with music APIs for real-time song recommendations

- User-friendly interface for selecting and updating moods

Technology: JavaScript, React, Spotify API, Node.js, CSS, HTML

G2O Optimization on Occluded Video   Live link

Implemented a G2O-based optimization system to enhance keypoint localization accuracy in occluded video frames, improving robustness in human pose estimation. Applied graph-based nonlinear optimization to handle missing and noisy keypoints effectively.

Features:
- Keypoint tracking and refinement in occluded videos
- Integration of G2O for nonlinear least squares optimization
- Robust handling of occlusions and missing data
- Visualization of optimized keypoints on video sequences

Technology: Python, G2O ,Openpose, OpenCV, NumPy, Ubuntu Linux,

Vehicle Management System   Live Link

Designed a relational database to manage users, vehicles, parking slots, bookings, and payments. Implemented normalized tables, complex SQL queries, and PL/SQL procedures (triggers, functions, cursors) for efficient data handling and reporting.

Features:

- Designed normalized tables with relational integrity

- Implemented SQL queries, joins, subqueries, and PL/SQL (procedures, triggers, functions) for automation and reporting

Technology: MySQL, SQL, PL/SQL

EDUCATION

International Islamic University Chittagong

BSc in Computer Science and Engineering