**Ahmad Ali**

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**PROJECTS**

**Web & App Development**

* **Gravity-Gears** **– Currently developing a full-stack e-commerce platform for selling electronic accessories. Built using the MERN stack with features like dynamic product management, user authentication with HTTP-only cookies, side cart functionality, and an admin dashboard for managing orders and inventory. Images are stored using Cloudinary, and the system supports secure order placement and status tracking.**
* **Pet Haven and Adoption** **–** **Developed a cross-platform mobile application where users can browse and adopt pets. Integrated Firebase for authentication and data storage.**
* **Clothing E-Store** **–** **Built a full-stack e-commerce website allowing users to browse, add to cart, and purchase products. Implemented user authentication, payment gateway integration, and responsive UI.**
* **React Mini Projects** **–** Developed multiple small applications, including a currency converter, GitHub profile viewer, and a to-do list, to enhance proficiency in React.js.

**Database**

* **Pet Adoption Database (MS SQL & Python)** **–** Designed and implemented a relational database system for managing pet adoptions, generating fake data using Python scripts. The primary objective was to remove redundancy and anomalies from a database through normalization techniques, ensuring data integrity and efficient querying.

**Machine Learning & Parallel Computing**

* **Movie Recommender System –** Created a recommendation engine using vectorization techniques like TF-IDF and cosine similarity to suggest similar movies based on user input. Implemented using Python and scikit-learn.
* **Parallelized File Search System –** Developed a multi-threaded file search tool that significantly improves search efficiency across multiple files. Used OCR, Python multiprocessing and threading to parallelize the search process.

**Game Development and Animation**

* **Tic-Tac-Toe Game (Flutter) –** Developed a simple interactive Tic-Tac-Toe game using Flutter, demonstrating cross-platform mobile app development skills.
* **YouTube Animation Videos** **–** Created engaging animation videos using Adobe After Effects and Premiere Pro, uploaded to YouTube for public viewing. ([YouTube](https://www.youtube.com/@littlefellow5395))

**EDUCATION**

**COMSATS University Islamabad, Lahore Campus January 2022 - Continue** Bachelor *of Science in Software Engineering*

* Took to the stage for the convocation hosting auditions and proudly emerged as the **runners-up**.

**Punjab College, Lahore Campus**

**2019 - 2021** Pre - *Engineering*

**ACHIEVEMENTS**

* **Hackathons & Competitions** – Participated in multiple coding and ML challenges
* **Campus Ambassador - DirAction**(2023 - 2024) – Organized events and promoted professional development opportunities.
* **Sponsorship Head - IEEE CUI RAS Society**(2022 - 2024) – Coordinated with industry professionals and organizations to promote IEEE initiatives.