

Maimoona Arif

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Education

Superior University

November 2022 – Present

Lahore, Punjab Bachelor of Science in Information Engineering Technology

Technical Skills

Python, TensorFlow, CNN, Medical Image Analysis, Deep Learning, Unity, C#, VR Development, UI/UX, 3D Modelling, Arduino, C++, Ultrasonic Sensors, SQL, Database Design, Data Integrity, BeautifulSoup, Requests, Data Extraction, Web Automation, HTML, CSS, JavaScript, Frontend Development, Responsive Design, Web Design, E-Commerce, Game Logic, Flutter, Dart, Google Gemini API, Mobile App Development

Projects

Smart Diagnostic AI for Thyroid Cancer – Python, TensorFlow, CNN

January 2025 – Present

- Developed a deep learning model to classify thyroid cancer using medical image datasets.
- Preprocessed, trained, and validated the model for accurate cancer and non-cancer prediction.

VR NEXTGENZ: Virtual Shopping Mall App – Unity, C#

October 2024 – December 2024

- Designed a VR-based immersive shopping experience simulating a virtual mall environment.
- Integrated product navigation, cart functionality, and user interactivity features.

Blind-stick , car automatic barrier – Arduino, C++

March 2024 – June 2024

- **Blind Stick:** A smart walking stick for visually impaired users that uses ultrasonic sensors to detect nearby obstacles and alerts the user through vibrations or a buzzer.
- **Car Automatic Barrier:** An Arduino-based system that uses an IR or ultrasonic sensor to detect an approaching car and

automatically opens the barrier using a servo motor.

Event Management System – SQL

June 2023 – August 2023

- Designed a **SQL database** to manage event details, users, and registrations.
- Performed **CRUD operations** and created queries for reporting and data retrieval.
- Used **foreign keys and constraints** to maintain relational integrity.

- **Web Scraping Tool – Python (BeautifulSoup, Requests)**

July 2023 – August 2023

Built a tool to extract and organize data from websites automatically for analysis and reporting.

- **Thyroid cancer detection (front-end)**

January 2025 – February 2025

Description: Developed a responsive frontend website for thyroid cancer risk assessment using AI-based ultrasound image analysis. The interface allows users or clinicians to input data and view diagnostic insights in a user-friendly dashboard.

- **Pet Adoption & Sales Website(front-end)**

September 2024 – october2024

Description: Created a dynamic website for pet sales and adoption, including pet listings, detailed profiles, and a streamlined contact form for potential buyers.

- **E-Commerce Shopping Website (front-end)**

September 2024 – october2024

Description: Developed a fully responsive online shopping website featuring product browsing, cart management, and secure checkout to enhance user buying experience.

- **Tic Tac Toe Game – Python**

May 2023

Designed a CLI-based two-player game using basic Python logic and loops.

- **Gemeni-AI (Mobile app development)**

Gemini AI is a next-generation mobile application developed using Flutter and Dart, integrating Google's cutting-edge Gemini API.

The app delivers a unified platform for real-time AI chat, AI-generated image creation, and multilingual text translation.

Technical Skill

- **Languages:** C++, OOP(python) , OOP(C++) , DSA, MySQL , Java , Python , HTML/CSS , Dart(Flutter)
- **Developer Tools:** VS Code, Android Studio, Google Colab
- **Technologies/Frameworks:** GitHub, React.js, Django
- **Database:** SQL, MySQL, Firebase (basic)
- **Soft Skills:** Problem Solving, Team Collaboration, Communication

Language

English

Urdu