

MARIAM FATIMA

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Profile

Hands-on and innovative Computer Science Engineering student passionate about developing impactful technology and open-source solutions. Demonstrates strong programming skills and showcases a dynamic portfolio featuring projects in biomedical applications, cryptography, and full-stack development. A fast learner, skilled at transforming complex concepts into effective, user-friendly code and engaging interactive dashboards. Thrives in collaborative, fast-paced environments and consistently contributes to technical communities as a proactive and resourceful problem solver.

Education

Stanley College of Engineering and Technology for Women

Bachelor of Engineering in Computer Science (CGPA: 8.2, 1st year)

Apr 2024 – Apr 2028

Hyderabad, Telangana

The Indian High School

Senior Secondary (CGPA: 8.7)

Apr 2022 – Apr 2024

Dubai, United Arab Emirates

Projects

MNIST Image Classifier | Python, Scikit-learn, Streamlit [GitHub]

2025

- Developed a digit classification pipeline utilizing MNIST and various algorithms (Logistic Regression, KNN, Neural Network).
- Built and deployed an interactive dashboard in Streamlit; applied ROC-AUC and accuracy metrics for model evaluation as part of the AIML program in IIIT Hyderabad.
- Explored feature engineering, data cleaning, and model comparisons with clear documentation and visualization.

Bio-Medical Data Analysis App | Python, Streamlit [GitHub]

2024

- Engineered a biosensor app for heart and respiration rate based on photoplethysmography (PPG) signals.
- Processed and visualized biomedical data; performed statistical analysis and model deployment using Python and Streamlit.
- Demonstrated rapid prototyping and interdisciplinary skills connecting computing and biomedical engineering.

Real Estate Management System | Python [GitHub]

2023

- Developed a menu-driven Python application for real estate listings and admin/user role management.
- Implemented object-oriented programming, file input/output, and robust business logic for transactions.
- Strengthened full-stack and backend skills by integrating data validation, user authentication, and documentation.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, MySQL

Tools: VS Code, Google Colab, Google Cloud Platform, Streamlit

Frameworks: Scikit-learn, WordPress

Key Domains: Data Science, Machine Learning, Cryptography, Full Stack Apps, Signal Processing, DSA

Leadership / Extracurricular

College Tech Society

2024 – Present

Volunteer

Stanley College

- Participated in hackathons, coding competitions, and workshops; collaborated on event planning and technical sessions.
- Contributed to impactful college and social events for student and community engagement.

Sports / Academic Clubs

2011 – 2016

Member, Chief Editor

The Indian High School

- Led community service and managed magazine editorial operations.
- Participated in the Mini Sports Funtasia Basketball Tournament, helping the team achieve first place.
- Achieved academic excellence and supported extracurricular boards.