

# MARIAM FATIMA

IM Residency, Sri Shyam Nagar, Hyderabad, India

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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**

**Apr 2024 – Apr 2028**

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

*Hyderabad, Telangana*

**The Indian High School**

**Apr 2022 – Apr 2024**

*Senior Secondary (CGPA: 8.7)*

*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.