

# KAVYASHREE M R

Jayanagar, Bengaluru, Karnataka 560067

Phone: +91 6363932799

Github: kavyaTheCreator

Email: kavyashreemr1@gmail.com

Linkedin: Kavyashree M R

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## PROJECTS

### Debouncing circuit | Vivado, hardware

- Developed the code for implementing debouncing circuit and implemented it using hardware kit.

### Cardiovascular Mortality Prediction Using Stratified K-Fold Cross-Validation | Python

- Developed a machine learning pipeline to predict cardiovascular mortality using the Heart Failure Clinical Dataset.
- Implemented stratified 10-fold cross-validation and data balancing to minimize overfitting and improve model reliability; AdaBoost achieved 85.4% accuracy and 91% AUC.

### Mod-10 T-flipflop counter | Tanner EDA by mentor graphics

- Designed a counter which counts 10 numbers and resets back and analyzed the obtained graph.

### To-Do List Web App | React.js, HTML, CSS, JavaScript

- Built a responsive to-do list including task creation, deletion, completion toggling, and state management.

### Inventory Management System | HTML, CSS, JavaScript

- Developed a simple inventory system to add, update, and delete inventory items dynamically with real-time updates and local Storage to retain session data.

## SKILLS

Technical Proficiencies: - Hardware Design: Verilog, SystemVerilog, RTL design, Digital Logic Design, FPGA prototyping, Vivado, Tanner EDA.

Verification: Testbench creation, simulation, debugging, timing analysis.

Programming & Scripting: C, Python, HTML, CSS, Javascript

Professional Skills: - Strong problem-solving and analytical thinking

- Effective communicator and time manager.
- Leadership quality: Ability to take initiative, guide team members, and drive projects to completion

## EDUCATION

People's Education Society University (PESU), Bengaluru

Electronics and Communication Engineering (2022-2026) | CGPA: 8.1 | **Minor course:** Computer Science Engineering

Pre-University education | Masters PU College, Hassan | PCMB | 98.5% (Secured 8<sup>th</sup> rank in state)

## INTERNSHIP EXPERIENCE

Python Development Intern|Systemtron, Bengaluru | Jan 2024 – Mar 2024

- Completed a certified internship in Python programming with a focus on application development.
- Built small-scale Python projects and scripts to automate tasks and solve real-world problems.

## EXTRACURRICULAR ACTIVITIES

- Completed course in Power BI
- Bharatanatyam: Completed Intermediate level; currently pursuing Advanced level training.
- Sangeetha (Classical Music): Completed Foundation level; currently pursuing Intermediate level.