

# RITU S MATHAD

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## Education

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**KLE Institute of Technology, Hubballi**

**2022– 2026**

*Bachelor of Engineering (Computer Science and Engineering) - 9.27 CGPA*

**Global Independent PU College**

**2020 – 2022**

*PU Science - PCMB - 91.33%*

**Smt. Nirmala K Thakkar English Medium High School**

**2019 – 2020**

*Class 10th - 97.92%*

## Technical Skills

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**Programming Languages:** C, JavaScript, Python.

**Framework :** ReactJS, Flask.

**Other Skills:** Git, GitHub, Tailwind CSS, Data Structures and Algorithms.

## Projects

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- Graph Analysis Visualizer – C, Python/Matplotlib – Award-winning tool implementing Tarjan's algorithm for interactive network component visualization.
- EduTrack – Flask, MongoDB, JS – Hackathon-winning platform with spider graph visualization and digital assistant for student performance tracking.
- StockAlert – Python, PlyerApp – Real-time market monitoring application delivering customizable price threshold notifications.
- Web Utilities Suite – HTML, CSS, JS – Collection of responsive micro-applications including secure password generation and currency conversion tools.
- Portfolio Website – React, TailwindCSS – Professional showcase featuring optimized performance, modern UI, and responsive design elements

## Additional Information

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### Hackathons & Technical Competitions:

- **1st Place Winner**, Analysis & Design of Algorithms - KLEIT x IIC Bengaluru x CSI - Implemented Tarjan's algorithm with interactive Python visualization for complex graph analysis
- Built interpretable ML model with Grad-CAM visualization for skin cancer analysis - **Top 10 Team**, DSATM Hackathon
- Developed full-stack Web Application for Loan Eligibility under 3-hour constraint - **Top 15 Finalist**, Hyperthon
- Engineered 3D performance tracking system with leaderboard functionality - **Finalist Team**

### Advanced Technical Certifications:

- **Mastering Data Structures & Algorithms** by Abdul Bari - Implemented complex algorithms with optimized time/space complexity
- **Web Technology (NPTEL - SWAYAM)** - Comprehensive front-end and back-end development certification
- **Google Developer Student Club (GDSC)** - Completed all technical tracks with practical project implementations
- **Drone Systems Engineering** - IEEE AEES x CDAC Bangalore workshop on embedded systems and real-time applications

### Technical Leadership:

- **Vice-Chair, IEEE AEES Student Chapter (2025)** - Organized technical symposiums and workshops for 500+ student participants
- **Social Media Coordinator, IEEE AEES (2024)** - Increased technical community engagement by 70% through strategic content.