LATHIKA SAKTHIVEL

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EDUCATION

COIMBATORE INSTITUTE OF TECHNOLOGY   Coimbatore
M.Sc. Data Science (5-Year Integrated)   **2023 – Present**
Cumulative GPA: 9.23 (up to 3rd semester)

PKD MATRICULATION HIGHER SECONDARY SCHOOL   Pollachi
HSC (State Board) | **Percentage:** 91%   **2022 – 2023**

PROJECTS

AIR QUALITY MONITORING & SAFETY ALERT SYSTEM (IoT + ML Integration)   **Git-Hub**
Tools: Arduino, MQ135, DHT11, ESP32, Python, Streamlit, Firebase

- Designed a real-time industrial air quality monitoring system with safety alerts, reducing manual monitoring time by 70%.Integrated an ML model for environmental safety classification.
- Enabled proactive safety response with gas forecasting predicting critical events 5 minutes ahead. Deployed a Streamlit dashboard managing live data from 3+ sensors and real-time user notifications.

THOZHIL BAZAAR — LOCAL JOB PORTAL FOR TIER 2 & 3 CITIES   **Git-Hub**
Tools: Python, Flask, MySQL, HTML, CSS

- Developed a bilingual job portal facilitating local job postings in pilot run, increasing employer reach by 60%.
- Enabled job seekers to filter and apply to jobs, reducing search time by 50%.
- Enhanced application tracking and direct chat features, improving applicant-employer response rate by 40%.

SKILLS AND INTERESTS

- **Languages:** Python, SQL, R
- **Frameworks & Tools:** Flask, Power BI, MongoDB, Git & GitHub
- **Areas of Interest:** Software Development, Web Application Development
- **Soft Skills:** Leadership, Team Communication, Critical Thinking, Time Management.

LEADERSHIP ROLES AND EXPERIENCES

- **Joint Secretary - Women Empowerment Cell** | May 2025 – Present
- **Editor - Women Empowerment Cell** | May 2024 – May 2025
- **Event Secretary - Rotaract Club of CIT** | February 2025 – April 2025
- **Outreach Team Member - Entrepreneur Development Cell** | June 2024 – June 2025

ACHIEVEMENTS AND CERTIFICATIONS

- **Secured Winner Position** in UnHack 2025 Hackathon organized by KLA
- **Winner** - Thinklytics Login 2025, Tech Symposium by PSG College of Technology.
- **Winner** - Code Sprint Login 2025, Tech Symposium by PSG College of Technology.
- **Runner Up** - Paper Presentation Mechatrix'25 conducted by NIET Coimbatore.
- **Top 6 finalists** - BigHacks'25 Hackathon Conducted by Acharya Institute of Technology , Bangalore.
- **Python for Data Science** - SWAYAM NPTEL (SEPTEMBER 2024)