

# ABINAYA K

Pallivasal Street, Jambuvanodai, Thiruvarur District-614738

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## Education

<b>Vellore Institute of Technology, Vellore</b> <i>Bachelor of Technology (B.Tech) in Computer Science with Specialization in Internet of Things Current</i>	<b>2022 present</b> CGPA: 8.34 / 10
<b>Government Higher Secondary School, Tampikkottai-Thanjavur</b> <i>Higher Secondary Certificate (HSC), State Board of Tamil Nadu</i>	<b>May 2022</b> Scored: 93.1%
<b>Government High School, Jambuvanodai-Thiruvarur</b> <i>Secondary School Leaving Certificate (SSLC), State Board of Tamil Nadu</i>	<b>March 2020</b> Scored: 96.4%

## Objective

B.Tech student specializing in Computer Science and Engineering with a focus on the Internet of Things (IoT). Enthusiastic and adaptable individual with a passion for learning and innovation. Seeking an opportunity to contribute to meaningful projects, apply problem-solving skills, and grow while making a positive impact through technology.

## Projects

### Keypad door open system using pir sensor – Developed a motion-triggered password

- protected door lock using Arduino Uno, PIR sensor, and keypad..
- Integrated servo motor for door unlocking, buzzer and LED indicators for correct/incorrect password alerts..
- LCD display guides users through the process, enhancing security and usability.
- Designed for secure, automated entry systems in homes and offices, offering cost-effective access control..

### Smart AquaControl

Present

- – IoT-Enabled Water Tank Monitoring and Automation System.
- Built an automated water management system using Arduino UNO, ESP-01 Wi-Fi module, ultrasonic sensor, and TDS sensor..
- Integrated relay module for motor ON/OFF control based on water level and quality..
- Designed hardware setup for real-time monitoring, leak detection, and efficient pump control, suitable for homes, institutions, and rural areas.

## Technical Skills

**Programming Languages:** Java,, SQL,Arduino

**Tools and Platforms:** VS Code, Arduino

**Languages Known:** English,Tamil,French(Basic)

**Core Skill:** Problem Solving, Analytical Thinking, Team Collaboration, Time Management

## Accomplishments

- Awarded a **100% tuition fee scholarship** under VIT's prestigious **STARS (Support The Advancement of Rural Students)** scheme for the entire duration of B.Tech (2022–2026).
- Achieved **Top Rank** in Higher Secondary Education among rural government schools in the district.

## Relevant Coursework

- Data Structures and Algorithms
- Database Management
- Object-Oriented Programming (OOPs)
- Computer Networks