

BALASHANMUGAM R

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📍 Trichy, Tamil Nadu

Executive summary

I'm excited to be part of your incredible growth journey, where I can contribute my skills and energy to make a real impact. I'm confident I can add value by solving problems, learning fast, and giving my best every day.

Projects

VerifyMeAI  | [OpenCV](#), [Mediapipe](#), [Haarcascade XML](#), [NumPy](#) | [Link](#)

- VerifyMe.AI replaces traditional CAPTCHA methods with a smart, real-time human verification system. It uses webcam-based face detection and hand gesture recognition to ensure that only real users – not bots – pass through security checks.
- This system is ideal for online exams, secure login systems, or kiosk-based public services. The user is asked to perform a random challenge (e.g., show 2 fingers and smile), and the system verifies both face presence and gesture correctness.

Spring Boot H2  | [Spring boot](#), [Spring Security](#), [JWT](#), [H2 Database](#), [Bcrypt](#), [Maven](#) | [Link](#)

- Developed a secure user management system by implementing RESTful APIs using Spring Boot, with JWT-based authentication and BCrypt password hashing for secure login and access control.
- Integrated H2 Database for in-memory data storage and used Spring Data JPA for seamless database interactions, enabling fast development and testing of user-related operations.

Technical Skills

Programming Language: Python , Java (JWT, Bcrypt, Maven).

Data Analysis: Python (Pandas, NumPy), R, Excel, SQL

Data Visualization: Power BI, Tableau, Matplotlib, Seaborn

Databases: MySQL, MongoDB

◆ Activites

- **“SECOND PLACE”** in a paper presentation competition “TECH TALK” conducted by Bishop Heber College, Trichy.

Education

Master's of Data Science, 2nd year | 2024 - 2026

CGPA: 7.2 (First 2 semesters)

Bachelor of Computer Application | 2021 - 2024

CGPA: 7.4