

# Praveen Kumar P

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## EXPERIENCE

### VAAYUSASTRA AEROSPACE (IITM RESEARCH PARK) |

AI WEB DEVELOPMENT INTERN (FLASK, PYTHON, AWS)

Jul 2024 - Aug 2024 | Chennai, India

- Built a hand-gesture-controlled RC car using Arduino UNO, accelerometer, and RF modules, achieving 90% directional accuracy across 5 gestures over a 10m range.
- Developed a BookMyShow clone with a 5-member team using Flask and Wix AI, implementing 6+ functional pages and simulating full booking and login workflows.
- Improved team testing efficiency by resolving 10+ frontend/backend bugs and optimizing booking page load time by ~20%.

## PROJECTS

### AI LEGAL ASSISTANT (AILA) |

PYTHON, FLASK, ML, GTTS, GOOGLETRANS

- Developed bilingual chatbot (Tamil/English) with 95% classification accuracy.
- Processed 2,300+ user queries from 1,000+ users in 3 months.
- Reduced response time by 35% via asynchronous Flask routing.

### EMPLOYEE MANAGEMENT SYSTEM |

SPRING BOOT, THYMELEAF, MYSQL

- Engineered a full-stack employee management platform handling 1,000+ records with 100% uptime.
- Delivered REST APIs with average 200ms latency.
- Streamlined maintainability by 50% using layered architecture principles.

### SIGN LANGUAGE DETECTION SYSTEM |

PYTHON, CNN, OPENCV

- Achieved 91.2% test accuracy over 2,600+ labeled images for 26 sign classes.
- Minimized latency by 40% using ROI techniques and optimized CNN layers.
- Powered real-time sign detection at 20 FPS using OpenCV.

### PERSONAL MANAGEMENT SYSTEM WEBSITE |

HTML, CSS, BOOTSTRAP, PHP, SQL, MYSQL

- Architected and deployed a responsive CRUD-based personal data management system handling 500+ entries with 99.9% data accuracy.

## ACHIEVEMENTS

- Top 50 finalist (out of 15,000+ entries), Niral Thiruvizha 2.0 – Awarded 1,00,000 for AI Petition Box innovation.
- Delivered Hostel Management System in 14 days with a team of 4 – Automated operations, reducing manual workload by 90%.
- Proposed AI governance model at Dharmapuri District Conference to 12+ administrative officers.

## EDUCATION

### GOVT. COLLEGE OF ENGINEERING, DHARMAPURI

B.E. IN COMPUTER SCIENCE AND ENGINEERING

OCT 2021 - MAY 2025 | CGPA: 8.0 / 10

### ST. MARY'S HR.SEC. SCHOOL, DINDIGUL

HSC (PCMB)

JUN 2019 - MAY 2021 | 90%

### ST. MARY'S HR.SEC. SCHOOL, DINDIGUL

SSLC

JUN 2018 - MAY 2019 | 85%

## SKILLS

### PROGRAMMING LANGUAGES

Java • Python • C Kotlin  
• PHP • SQL HTML • CSS

### FRAMEWORKS & TOOLS

Spring Boot • Flask • OpenCV  
Thymeleaf • Git • AWS S3

### CONCEPTS

DSA • OOP • REST APIs  
MVC • Team Leadership • Project Coordination

## CERTIFICATIONS

- NPTEL DSA with Java – Score 76%
- Spring Boot JPA – Infosys Springboard
- Android Dev – Internshala
- AI Fundamentals – IBM SkillsBuild
- Python Basics – Great Learning
- Networking Essentials – Cisco NetAcad

## LINKS

- [GitHub](#)
- [LinkedIn](#)
- [Portfolio](#)