

# PRAVEEN KUMAR P

Aspiring Software Engineer | Computer Science and Engineering Student

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## Professional Summary

Final-year Computer Science Engineering student with strong skills in Java, Spring Boot, Web Development, and AI applications. Proven ability to design scalable software, lead teams, and deliver impactful projects. Recognized in state-level hackathons and experienced in both full-stack development and AI-powered solutions. Actively seeking roles in Software Development and Debugging.

## Technical Skills

- Programming Languages:** C, Java, Python, Kotlin, PHP, SQL, HTML & CSS.
- Software Development:** Web Development, Android App Development, Spring Boot Application Development.
- Technical Expertise:** DSA, OOP, Clean Code Practices.
- Frameworks and Tools:** Bootstrap, Spring Boot, Spring MVC, Flask.
- Cloud & Databases:** AWS(S3), MySQL, MongoDB, SQLite.
- Soft Skills:** Problem-Solving, Team Leadership, Effective Communication, Time Management.

## Experience & Projects

### Intern – Vaayusastra Aerospace (IITM Research Park)

Jul 2024 - Aug 2024 | Chennai, India

- Built a hand-gesture-controlled RC car (Arduino UNO, accelerometer, RF) with 90% directional accuracy over 10m.
- Developed a BookMyShow-like platform using Wix AI, implementing booking and login features across 6 functional pages.

### Food Delivery Platform | [Live Demo](#)

Jun 2025 - Aug 2025 | Entrepreneurial Project

- Tech Stack:** Python, Flask, MongoDB, JavaScript, Bootstrap, HTML/CSS, ReportLab (PDF generation), REST APIs
- Developed a full-stack food delivery platform with customer & admin modules, deployed on Render.

### AI-powered Petition Management System | [Live Demo](#)

Apr 2025 - May 2025 | Hackathon Project

- Tech Stack:** Python, Flask, Gemini AI, MongoDB, User Authentication.
- Designed and deployed a secure **petition management system** where citizens can file grievances. Automatically **summarizes petitions, classifies them into departments, and prioritizes urgency**, improving efficiency in public grievance redressal.

### AI Legal Assistant | [Live Demo](#)

Apr 2025 - May 2025 | Academic Project

- Tech Stack:** Python, Flask, Mistral (via Ollama), Natural Language Processing (NLP), SQLite, Gradio UI, REST APIs.
- Developed a bilingual **AI-based chatbot** capable of providing **legal guidance in Tamil and English**. Implemented natural conversation flow with **clarifying follow-up questions and precise legal responses**, improving accessibility for users with limited legal knowledge.

### Employee Management System | [GitHub Repo](#)

Jan 2024 - Mar 2024 | Academic Project

- Tech Stack:** Spring Boot, Spring MVC, Thymeleaf, JPA, MySQL.
- Designed a **Spring Boot web app** for managing employee records with CRUD operations.

### Sign Language Recognition System | [GitHub Repo](#)

Sep 2023 - Nov 2023 | Academic Project

- Tech Stack: Python, OpenCV, Tensorflow, CVZone.
- Developed a **CNN-based hand gesture recognition model** and a **dynamic dataset** for continuous training, increasing accuracy by 20%.

## Achievements

### Selected - Niral Thiruvizha 2.0 (State-Level Hackathon by Govt. of Tamil Nadu, 2025)

- Ranked among the Top 15 projects out of 15,337 entries for developing an AI-powered Petition Box to automate public grievance redressal through classification, urgency detection, and real-time tracking.
- Awarded ₹1,00,000 cash prize and presented the project at the Grand Final Review held at St. Joseph's College of Engineering, Chennai.

### Participant – District Development Conference (Dharmapuri Collector Office, 2023)

- Engaged with enterprise owners to understand real-world business challenges and proposed engineering and technology driven solutions to address key issues.
- Gained valuable insights into policy-making, innovation, and technology integration for business development.

### Team Lead – Hostel Management System Project (2022)

- Led a team in developing a Hostel Management System, successfully completing 100% of the front-end and implementing half of the backend functionalities.

## Certifications

- DSA using Java (NPTEL – 76%)
- Android App Development (Internshala)
- Python Fundamentals (Great Learning)
- Spring Boot JPA (Infosys)
- Artificial Intelligence (IBM)
- Networking Essentials (Cisco)

## Education

- B.E in Computer Science and Engineering** at Government College of Engineering – Dharmapuri, Tamil Nadu  
Oct 2021 - May 2025 | CGPA: 8.0 /10

- HSC (PCMB)** at St. Mary's Higher Secondary School – Dindigul  
Jun 2019 - May 2021 | 90% Marks

- SSLC** at St. Mary's Higher Secondary School – Dindigul  
Jun 2018 - Mar 2019 | 85% Marks