

# PRADESHA P

Aspiring Software Engineer

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PradeshaP

## PROJECTS

### Prescripto - AI-Powered Healthcare Translator

January 2025

- Built a web application to scan, correct, and translate handwritten prescriptions using OCR and Generative AI (LLaMA 3 / Mixtral via Groq API). Integrated voice input, multilingual translation, and text-to-speech for enhanced rural healthcare accessibility.
- Technologies used: React.js, Node.js, Express.js, Groq API, LLaMA 3, Mixtral
- Additional tools: Tesseract.js, Sharp, Multer, SpeechSynthesis API, webkitSpeechRecognition
- GitHub: <https://github.com/PradeshaP/Prescripto-AI>

### Smart Appliance Control using Finger Detection & ESP32

March 2025

- Built a real-time smart appliance control system using Python (OpenCV + MediaPipe) for hand gesture recognition and ESP32 microcontroller for IoT-based control.
- System detects the number of fingers shown in front of a webcam – 1 finger turns ON Light 1, 2 fingers turns ON Light 2.
- Established serial communication between Python and ESP32 to trigger GPIO-based device control.
- Technologies used: Python, OpenCV, MediaPipe, Arduino IDE, ESP32, PySerial
- GitHub: [github.com/PradeshaP/Smart-Appliance-Finger-Control](https://github.com/PradeshaP/Smart-Appliance-Finger-Control)

### Shuffler Music App – Java, Android Studio

June 2024

- Developed a standalone Android app that scans and plays music stored on the user's device, shuffling tracks based on how frequently each song has been played.
- Technologies used: Java, Android Studio, Android SDK
- GitHub: [github.com/PradeshaP/Shuffler](https://github.com/PradeshaP/Shuffler)

## EDUCATION

### B.E. in Computer Science and Engineering

#### Madras Institute of Technology, Anna University

2023-2027

Chennai

- CGPA: 8.9/10 (upto 5th semester)

### HSC

#### Adhiyaman Matric Higher Secondary School

2023

Krishnagiri

- Percentage: 97%

### SSLC

#### Adhiyaman Matric Higher Secondary School

2021

Krishnagiri

- Percentage: 100%

## TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python

Frontend: HTML, CSS, JavaScript, React.js

Backend: Express.js, Node.js

Databases: MongoDB, Oracle

Tools: Git, GitHub, VS Code

## CODING PROFILES

- HackerRank: [hackerrank.com/ponnuranganprad1](https://hackerrank.com/ponnuranganprad1)
- LeetCode: [leetcode.com/u/ELE2iGF8Kb](https://leetcode.com/u/ELE2iGF8Kb)
- GeeksForGeeks: [geeksforgeeks.org/user/ponnurangaw/](https://geeksforgeeks.org/user/ponnurangaw/)

## CERTIFICATIONS

- GenAI Study Jam – Google Cloud 2025
- Python for Data Science – NPTEL
- HTML & CSS – Great Learning
- JavaScript – SoloLearn
- SQL (Basic, Intermediate) – HackerRank
- Mastering DSA Patterns – MIT
- C, C++, Java, SQL (Silver Badge) – HackerRank

## ORGANIZATIONS

- YRC (Youth Red Cross) Volunteer – Always eager to help people and contribute to society

## PARTICIPATION

- Flipkart Runway Season 5
- Praytna 8 hour Hackathon
- Google Solution Challenge 2025
- My sequel, Street Coding, Bug Hunt Event – MIT
- Selected in Round 1 of Flipkart Grid 7.0

## ACHIEVEMENTS

- Secured School First in Class 11 and Class 12
- Selected for the Infosys #IamFutureReady Workshop at Infosys Hyderabad SEZ Campus
- 200 problems solved across GeeksForGeeks and Leetcode
- Reliance Foundation Scholar – awarded 50,000 for outstanding national-level MCQ assessment

## SOFT SKILLS

- Adaptability
- Time Management
- Persistence