

Prasad Botre

✉ botreprasad474@gmail.com ☎ +91-8010681292 [in LinkedIn](#) [GitHub](#) [Portfolio](#)

Summary

Dedicated and solution-oriented Electronics and Telecommunication Engineering student with a strong passion for software development. Proficient in Android app development, AI integration, and gesture-based automation systems. Enthusiastic about leveraging modern technologies like Jetpack Compose, React Native, and Machine Learning. Exploring Cloud Computing, Docker, and Linux-based systems.

Technical Skills

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

Core Concepts: Data Structures & Algorithms, OOP, Computer Networks, DBMS, Operating Systems

Frameworks & Tools: Flask, FastAPI (basic), Django, Git, GitHub, Linux, Docker

Databases: MySQL

Cloud Platforms: AWS (basic), GCP

Publications

Exploration and Optimization Technique for Speech Enhancement and Emotion Recognition Using Deep Neural Network [↗](#) 2025

- Focuses on deep neural networks for speech enhancement in noisy environments
- Key Skills: Python, Scikit-learn, TensorFlow, Keras, PyTorch, Docker, Kubernetes

Certifications

ANDROID14 Certification: [↗](#) Scored 79/100. Covered Java, Kotlin, Jetpack Compose, and database integration.

Education

Dr. D.Y. Patil Institute of Technology

Pune, India

B.E. in Electronics and Telecommunication Engineering

Expected 2025

- CGPA: 8/ 10

Projects

Electronic Component Detection App [↗](#) 2024

- AI-powered Android app for identifying and classifying electronic components
- Backend integration to display specs, datasheets, and pinouts
- Tools Used: Android Studio, Kotlin, TensorFlow, MobileNetV2, Python, Scikit-learn, Kubernetes

Chat AI Application [↗](#)

2024

- Developed AI chatbot with image query and smart camera support
- Built clean and responsive UI using Jetpack Compose
- Tools Used: Kotlin, React-native, Jetpack Compose, Gemini API, CI/CD

Emotion Recognition [↗](#)

2025

- Deep learning model to recognize human emotions from speech
- Used audio features like MFCCs and spectrograms
- Integrated into Flask web app with Dockerized deployment
- Tools Used: Python, TensorFlow/Keras, Librosa, Flask, Docker

Gesture-Based Home Automation (IoT) [↗](#)

2023

- Designed IoT-based gesture-controlled home automation system
- Used OpenCV for hand detection and ESP8266/NodeMCU for appliance control
- Integrated with Blynk App and voice assistants like Google Assistant, Alexa
- Tools Used: Arduino, Python, OpenCV, Blynk, NodeMCU, IoT protocols (UART, WiFi)