

PRASHANTH NEMADI

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Professional Summary

Fresher Software and AI Engineer with strong fundamentals in Python, Java, REST APIs, SQL, and Machine Learning. Hands-on experience building scalable full-stack and AI-powered systems using Flask, Spring Boot, React, Next.js, and Docker. Strong problem-solving skills with a focus on clean code and real-world software applications.

Skills

- **Programming Languages:** Python, C, Java, C++
- **Frameworks:** Flask, FastAPI, Spring Boot, React, Next.js
- **Machine Learning:** Scikit-Learn, Pandas, NumPy
- **Tools:** Git, GitHub, Jupyter Notebook, VS Code.
- **Databases:** MySQL, MongoDB.

Education

Bahubali College of Engineering

B.E. in Computer Science, CGPA: 8.1

Aug 2022 – Jun 2026 (pursuing)

Shravanabelagola, Karnataka

Sangameshwar Composite PU College

Pre-University, Percentage: 65.6%

May 2020 – Jul 2022

Aminagad, Karnataka

Projects

Honeypot-Based Cyberattack Detection System [GitHub](#)

- Deployed Docker-based Cowrie honeypots to simulate vulnerable SSH services and capture real time cyberattack logs and PCAP network traffic from malicious users.
- Built robust Python-based data pipelines to parse honeypot logs, extract meaningful attack features, and store structured security data efficiently in MySQL.
- Designed feature engineering workflows to analyze attacker behavior, command execution patterns, and intrusion techniques from collected network data.
- Trained and evaluated a Random Forest machine learning model using Scikit-Learn to accurately classify malicious versus benign activities.

Food Waste Reimagined — Agriculture & Sustainability Challenge [GitHub](#)

- Designed a machine learning-based system to predict food expiration dates by analyzing usage patterns, storage conditions, and historical consumption data.
- Developed a scalable Flask backend and a responsive React frontend that enables users to track food inventory and receive timely expiry notifications.
- Implemented intelligent food usage recommendations and recipe suggestions to help users reduce household food waste.
- Created analytical dashboards to visualize food utilization statistics, estimated cost savings, and environmental impact metrics.

AI-Based Online Examination System [GitHub](#)

- Developed a full-stack AI-powered online examination platform using Next.js, React, and Type Script for creating, publishing, and managing digital exams.
- Integrated Google Gemini AI to automatically generate MCQs, True/False, and descriptive questions based on subject, topic, and difficulty level.
- Implemented secure examination features including countdown timers, automatic submission, tab switch detection, and copy-paste restrictions.
- Designed a user-friendly interface for students and teachers to conduct exams seamlessly with real-time validations.

Achievements

- Secured 1st place in a quiz competition on Mathematics Day.
- Led a team in several hackathons, gaining experience in collaboration and problem-solving.