

Varshini Manchikalapudi

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Summary:

Aspiring software engineer with expertise in Java, Python, REST APIs, Microservices, Django, Flask, and cloud technologies. Strong in secure coding, debugging, and unit testing. Developed scalable applications including Real-Time Sign Language Recognition and Food Ordering System. AWS Cloud Practitioner certified with strong problem-solving and leadership skills.

Education:

KL University

B.Tech in Artificial Intelligence & Intelligent Process Automation (Dual Degree with BBA)

2021 – Present

- B.Tech: 93%

- BBA: 85%

Bhashyam Junior College

Intermediate (MPC)

2019 – 2021

- Score: 90%

Ushodaya English Medium School

SSC

2017 – 2019

- Score: 79%

**Projects:**

**Real-Time Sign Language Recognition (2024)**

- Built using OpenCV, Hand Tracking Module, and ML classification.
- Captures hand gestures in real-time and classifies them accurately.
- Improved model performance through optimized image preprocessing.
- Built a REST API for prediction.

**Food Ordering System (2023)**

- Java-based ordering and billing system with dynamic menu management.
- Implemented Spring Framework for secure and scalable backend.
- Added JUnit test coverage (80%).

**Student Management System (2022)**

- Python-based modular system with microservices architecture.
- Includes Notes, Homework, To-Do, Wikipedia search, and conversion tools.

**Experience:**

- Developed multiple scalable applications in Java, Python, Flask, and Spring.
- AWS Cloud Practitioner certified with hands-on experience in cloud concepts.
- Led a college hackathon team and managed cross-functional workflows.

**Skills:**

Programming: Python, Java, C, SQL

ML/AI: OpenCV, Machine Learning

Web Development: Django, Flask, Spring

Cloud: AWS

Tools: Git, GitHub, PyCharm

Certifications:

- AWS Certified Cloud Practitioner

Achievements:

- Published research paper: Emotion Detection Based on Psychological Signals.
- Led a college hackathon event as team leader.