

# VARSHINI MANCHIKALAPUDI

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## PROFILE SUMMARY

Aspiring software engineer with expertise in Java, REST APIs, Microservices, and cloud solutions. Proficient in secure coding practices, unit testing, and frameworks like Django and Spring. Experienced in developing scalable applications such as Real-Time Sign Language Recognition and Food Ordering System. AWS Cloud Practitioner certified with strong problem-solving skills, demonstrated leadership by managing cross-functional teams in hackathons. Currently pursuing a dual degree in B.Tech (AI and IPA) and BBA.

## EDUCATION

### KL University

Bachelor of Technology in Artificial Intelligence and Intelligent Process Automation & BBA Dual Degree

2021 – Present

Guntur, India

- B.Tech: 93%

- BBA: 85%

### Bhashyam Junior College

Intermediate Education, MPC

2019 – 2021

Guntur, India

- Scored 90%

### Ushodaya English Medium School

Secondary School Education

2017 – 2019

Guntur, India

- Scored 79%

## NOTABLE PROJECTS

### Real-Time Sign Language Recognition

2024

Developed a system using OpenCV and Flask to capture and classify real-time hand gestures, enabling efficient recognition of sign language.

Implemented secure coding practices and optimized image preprocessing pipelines to improve model accuracy by 15%.

Designed a REST API for model predictions, facilitating seamless integration with external client applications.

### Food Ordering System

2023

Built a Java-based platform for food ordering, incorporating REST APIs for dynamic order management and menu updates.

Utilized the Spring Framework to develop a modular and secure back-end system, ensuring scalability and maintainability.

Developed robust JUnit test cases to validate core functionalities, achieving an 80% code coverage.

### Student Management System

2022

Created a Python-based system to manage student data with microservices architecture, ensuring modular and scalable functionality. Designed a user-friendly interface and integrated YouTube and dictionary tools to support resources.

## TECHNICAL SKILLS

Programming: Core and Advanced Java, Python, SQL.

Frameworks/Tools: Django, Flask, Git.

Testing: JUnit.

Soft Skills: Team Collaboration, Problem Solving, Agile Development.

## ACHIEVEMENTS

Published research paper titled *Emotion Detection Based on Psychological Signals* in the Journal of Computational Analysis and Applications.

Achieved **AWS Certified Cloud Practitioner** certification.

Led a college hackathon event, managing cross-functional teams.