

# VARSHINI MANCHIKALAPUDI

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## PROFILE SUMMARY

Aspiring machine learning engineer with hands-on experience in building intelligent systems such as Real-Time Sign Language Recognition. Proficient in Python, OpenCV, and frameworks like Flask and Django. Strong understanding of supervised and unsupervised learning algorithms, model evaluation, and data preprocessing. Experienced in RESTful API development and cloud integration. Published research on emotion detection using psychological signals. AWS Cloud Practitioner certified with solid problem-solving and leadership skills. 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.

### Student Management System

2023

Created a comprehensive system in Python for managing student data, including modules for Notes, Homework, YouTube integration, To-Do lists, Dictionary, Wikipedia search, and various conversion tools.

Implemented a scalable architecture with an intuitive interface to manage students' educational resources and tasks.

### Food Ordering System

2022

Developed a Java-based food ordering system with streamlined user interface for managing orders, menus, payments, efficient processing of all transactions and enhancing user satisfaction through efficient database queries

## TECHNICAL SKILLS

Programming: Core and Advanced Java, Python, SQL, DSA, React JS

Machine Learning: scikit-learn, OpenCV, TensorFlow (basic), model evaluation, preprocessing

Frameworks/Tools: Django, Flask, Git

Testing: JUnit

Soft Skills: Analytical Thinking, Team Collaboration, Self-Motivation, Leadership

## 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.