

VARSHINI MANCHIKALAPUDI

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PROFILE SUMMARY

Aspiring software developer with expertise in AI, Python, Java, Django, Flask, and cloud solutions. Developed projects like Real-Time Sign Language Recognition and Food Ordering System. AWS Cloud Practitioner certified with experience in machine learning. Strong leadership and problem-solving skills, demonstrated by leading a college hackathon. Currently pursuing a dual degree in B.Tech (AI and IPA) and BBA, showcasing adaptability and a broad skill set across technology and business domains.

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

The system captures hand gestures in real-time using OpenCV and HandTrackingModule, cropping the detected region. The cropped images are resized to a fixed size to accuracy. Images are saved in a folder with timestamps when the 's' key is hit.

The trained model predicts sign language gestures from the camera feed, classifying the cropped image. The predicted label is shown above the hand, with a bounding box around it for feedback.

Student Management System

2024

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

2024

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

Designed an efficient backend database system for real-time order tracking and bill generation.

TECHNICAL SKILLS

Programming: Python, Java, TensorFlow, OpenCV.

Frameworks/Tools: Django, Flask, Git, PyCharm.

Soft Skills: Team Leadership, Problem Solving, Communication.

ACHIEVEMENTS

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

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

Achieved **AWS Certified Cloud Practitioner** certification.