

VARSHINI MANCHIKALAPUDI

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PROFILE SUMMARY

Aspiring data scientist and ML engineer with a strong foundation in mathematics (linear algebra, probability, statistics) and programming in Python. Experienced in building intelligent systems such as Real-Time Sign Language Recognition using OpenCV, Flask, and scikit-learn. Proficient in data preprocessing, model evaluation, and supervised/unsupervised learning. Skilled in REST API development and cloud integration. AWS Cloud Practitioner certified. Pursuing a dual degree in B.Tech (AI and IPA) and BBA. Strong problem-solving, analytical, and communication skills with a proactive mindset.

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%

PROJECTS

Real-Time Sign Language Recognition

2024

Developed a system using OpenCV and Flask to classify real-time hand gestures and recognize sign language.

Achieved 85%+ accuracy using optimized image preprocessing and a custom classification pipeline.

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

Student Management System

2023

Created a Python-based system to manage notes, homework, YouTube integration, to-do lists, dictionary, Wikipedia search, and more.

Implemented modular architecture and streamlined user interactions with structured SQL and intuitive UI.

Food Ordering System

2022

Built a Java-based food ordering app with modules for order processing, payments, and menu management.

Improved user satisfaction by optimizing backend query processing and enhancing UX/UI.

TECHNICAL SKILLS

Programming: Python, Java, SQL, Data Structures and Algorithms

Mathematics: Linear Algebra, Calculus, Probability, Statistics

Data Science/ML: NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, OpenCV, TensorFlow (basic)

Frameworks: Flask, Django

Soft Skills: Analytical Thinking, Team Collaboration, Communication, 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.