

# VARDHAN RANGINENI

TRAINEE SOFTWARE ENGINEER

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## PROFESSIONAL OVERVIEW

I am an IT undergrad student with a strong foundation in **Python, Java, and Web Technologies**. I've developed smart, cloud-based applications using AWS. Passionate about problem-solving and continuous learning, I'm eager to contribute to dynamic software projects and grow as a professional in a collaborative and innovative development environment.

## PROJECTS

### Ai Powered Shopping List Generation Using the Apriori Algorithm

Working Period | ONGOING

- Utilized the Apriori algorithm to analyze purchase patterns and generate personalized shopping lists.
- Identified frequent item sets and derived association rules to predict future purchases.
- Demonstrated potential for retail automation and improved customer engagement through data-driven, AI-powered recommendations.

### Enhancing Human-Computer Interaction: Hand Gesture Recognition System for Controlling Both Volume and Mouse Movement in Real-Time Using a Webcam Feed.

Working Period | 7 MONTHS

- Developed a real-time hand gesture recognition system using OpenCV and MediaPipe to enhance human-computer interaction.
- This project improves accessibility and offers a seamless, hands-free computing experience.
- Technologies Used: Python, OpenCV, MediaPipe, Computer Vision, Gesture Recognition

### Oil Price Prediction Using deep learning.

Working Period | 4 MONTHS

- Developed a predictive model for LPG, petroleum, and diesel prices using supervised learning and deep learning.
- Integrated LSTM to enhance forecasting accuracy amid global crude oil volatility.
- Evaluated models with MAE and RMSE for performance analysis.
- Findings assist policymakers and businesses in managing India's fuel price fluctuations with improved forecasting tools.

## EDUCATION

### Bachelor's degree (IT)

Sreenidhi Institute of Science & Technology  
2025

### Secondary Education

Ascend Academy  
2021

## SKILLS

- Communication
- Teamwork
- Critical thinking
- Time management
- Leadership
- Adaptability

## CERTIFICATION

### [India Edu program GOOGLE for Developers Cloud Architecture](#)

Google & Credly (2024)

### [AWS Data Engineering](#)

AICTE, Eduskills, AWS (2024)

## PROFESSIONAL DEVELOPMENT

### [Job Simulation](#)

PWC Switzerland, Online  
2024

### [VAC On Machine Learning](#)

SNIST, Hyderabad  
2024