

# Anjali Rai

jalraibhardwaj@gmail.com | (840) 777-8703 | Fayetteville, AR | [github.com/Jal-E](https://github.com/Jal-E) | [linkedin.com/in/Anjali](https://linkedin.com/in/Anjali)

## PROFESSIONAL SUMMARY

Graduate student specializing in software engineering with a strong foundation in AI/ML and data science. Proficient in Python, Java, C++, and experienced in developing scalable software solutions. Expertise in real-time data processing and hardware-software integration.

## EXPERIENCE

### CALIFORNIA STATE POLYTECHNIC UNIVERSITY POMONA

| Research Assistant, Autonomous Vehicle Lab

2024 | Pomona, CA

- Developed camera-based road segmentation algorithms using ROS2, Linux, and Python.
- Implemented real-time road and sidewalk detection systems.

### JAY HARI SHIV GANGA ENGINEERING | Business

Administrator

2019 - 2023 | Durgapur, India

- Managed and optimized sales, inventory, and worker disbursements through data-driven decisions.

### KEYSIGHT TECHNOLOGIES | Software Development Intern

2018 | Kolkata, India

- Converted Tcl scripts to Python for enhanced functionality.
- Delivered optimized software-hardware integration solutions.

## PROJECTS

### VIRAL CASCADE PREDICTION ON DARKNET FORUMS |

Master's Thesis

Fall 2024

- Developed a machine learning framework for predicting malicious thread virality using structural, temporal, and community-based features.
- Achieved an F1-score of 0.70 through advanced feature engineering.

### FACIAL EXPRESSION RECOGNITION | PyTorch Kaggle

Challenge

Fall 2023

- Trained a neural network for facial expression classification, achieving 73% accuracy.

### OBESITY CLASSIFICATION | Machine Learning

Spring 2024

- Predicted obesity levels using Random Forest and SVM with extensive preprocessing.

## EDUCATION

### CALIFORNIA STATE POLYTECHNIC UNIVERSITY POMONA

Master's in Computer Science

Expected May 2025 | Pomona, CA

### SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY

B.Tech in Computer Science and

Engineering

May 2018 | India

## SKILLS

### PROGRAMMING LANGUAGES

• Python • Rust • C++ • Java • JavaScript

### MACHINE LEARNING

• TensorFlow • PyTorch • Scikit-learn

### TOOLS

• ROS2 • Kubernetes • Linux • Git

### CORE SKILLS

• Data Processing • Hardware Integration • Model Evaluation

## LINKS

Github:// [Jal-E](https://github.com/Jal-E)

LinkedIn:// [Anjalirai0706](https://linkedin.com/in/Anjalirai0706)

Website:// [Portfolio Website](#)