Anjali Rai

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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**
LinkedIn:// **Anjalirai0706**