

# ROHAN VIKAS LAGARE

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## EDUCATION

Santa Clara University, Santa Clara, CA, USA

Master of Science in Computer Science, Jun 2024

Coursework: Advance Design and analysis of algorithms, Parallel Programming, Distributed Systems, Artificial intelligence, Machine learning.

University of Pune, Pune, Maharashtra, India

Bachelor of Engineering in Computer Engineering, Jun 2018

Coursework: Database Management Systems, Object Oriented Programming, Operating Systems.

## TECHNICAL SKILLS

Programming Languages: Python, C++, Java, Shell scripting, JavaScript, HTML, CSS.

Frameworks & Libraries: Django, Node.js, Bootstrap, React, Express, OpenMP.

Storage: Teradata, MongoDB, Snowflake, AWS RDS.

Technologies: Postman, Tableau, Docker, Jupyter, Git.

## PROJECTS

Course connect

- Devised and deployed a comprehensive web application for tracking courses and connecting students with similar courses, leveraging Python, Django, resulting in enhanced student engagement and satisfaction.
- Optimized web application performance and scalability by applying distributed system concepts such as load balancing, fault detection, and leader election, ensuring seamless user experience and system reliability.

Face Recognition

- Developed a face recognition model using scikit-learn and pre-trained VGG face model, achieving 98.7% accuracy.
- Implemented live webcam face recognition using trained model, facilitating real-time identification.
- Employed advanced techniques for data preprocessing and model training to handle variations in lighting, occlusions, and facial features resulting boosted model accuracy from 70% to 98.7%.

Customer segmentation

- Accomplished a customer segmentation using Parallel K-means clustering, leveraging OpenMP to achieve a 7X speedup compared to serial algorithm, resulting in more efficient customer segmentation.
- Analyzed runtime statistics and identified key insights about relationship between speedup and other runtime variables, utilizing parallelization techniques to optimize customer segmentation performance.

## EXPERIENCE

**IRIS monitoring, India**

Nov 2021 - Sep 2022

**Co-Founder**

- Formulated monitoring system for industrial electrical meters by implementing a software solution, enabling real-time monitoring, data analysis, and report generation, resulting in enhanced system efficiency and a 40% reduction in downtime.
- Integrated ESP32, Arduino Framework, Modbus protocol, Postgres DB, Django, and React to build an IoT device and web application, resulting in a robust and scalable system for data acquisition and analysis.
- Increased team productivity and collaboration by demonstrating leadership skills, managing a team of engineers, and overseeing development, resulting in project completion.

**Bitwise Solutions, India**

Oct 2018 - Nov 2021

**Programmer**

- Utilized Ab-initio, AWS, Teradata, Snowflake, and shell scripts to design and construct data pipelines for different product lines, resulting in increased data processing capabilities and improved system scalability.
- Automated error and SLA notifications of scheduled processes by devising scripts, reducing manual activity by 70%, and enabling real-time system monitoring and reporting.
- Collaborated with cross-functional teams in an agile environment to develop, test, and deploy applications, ensuring project completion within specified timeline.
- Mentored and trained team members, sharing knowledge on various technologies, data flows, and business processes, resulting in a 25% increase in productivity and a 20% reduction in error rates.

## CERTIFICATIONS / ACTIVITIES

- Web Development Certification, Udemy.
- Python Certification, Udemy.