

VRAJ PAREKH

Phone: 930-904-4488 | Email: vrparekh@iu.edu | LinkedIn: [linkedin.com/in/vraj24](https://www.linkedin.com/in/vraj24) | GitHub: github.com/Vraj24
Website: vraj24.github.io/portfolio/

EDUCATION:

Indiana University, Bloomington, IN, United States	Expected May 2026
Master of Science, Computer Science	CGPA: 3.7/4.0
Relevant Coursework: Software Engineering, Applied Algorithms, Machine Learning, Computer Vision, Cloud Computing	
G. H. Patel College of Engineering & Technology (GCET), Anand, India	Apr 2024
Bachelor of Engineering, Computer Engineering	CGPA: 8.86/10.00

TECHNICAL SKILLS:

- **Languages:** C, C++, Java, Python, Dart
- **Web Development:** ReactJS, NodeJS, HTML5, CSS, JavaScript, TypeScript
- **Libraries & Frameworks:** Flutter, Redux, PHP, Scikit-Learn, Keras, TensorFlow, PyTorch, OpenCV
- **Databases:** MongoDB, SQL
- **Tools & Platforms:** Git, VS Code, Anaconda, PyCharm, Xcode, Docker, AWS (EC2, S3, Lambda, SageMaker, SNS)
- **Other:** REST APIs, Agile Methodologies, Authentication Protocols, Database Design, CI/CD

WORK EXPERIENCE:

Tech Elecon Pvt. Ltd., Anand, India	Dec 2023 – Apr 2024
<i>Software Engineer Intern</i>	
<ul style="list-style-type: none">• Designed a scalable e-commerce platform using ReactJS, NodeJS, and MongoDB, improving load handling by 40%.• Enhanced system performance by optimizing Redux-based state management, reducing latency by 30%.• Integrated PayPal API for secure payment processing, achieving 99.9% uptime.• Led requirement gathering, prototyping, and deployment with a cross-functional team, ensuring on-time delivery.	

PROJECTS:

Cloud-Based Weather Forecasting with LSTM	Feb 2025 – Apr 2025
<i>Technologies: AWS, Python, Pandas, LSTM, Kinesis, Lambda, SageMaker</i>	
<ul style="list-style-type: none">• Designed and deployed a real-time ML pipeline using AWS to forecast weather patterns via Sagemaker-hosted LSTM models.• Streamlined ingestion from NOAA using AWS Kinesis and implemented Lambda triggers for data preprocessing.• Created an automated severe weather alert system using AWS SNS, improving regional forecasting response times.	
PrismCart – Cross-Platform E-Commerce System	May 2024 – Oct 2024
<i>Technologies: React, NodeJS, MongoDB, Flutter, Dart</i>	
<ul style="list-style-type: none">• Built a unified shopping platform with both web and mobile applications using Flutter and React.• Secured authentication with JWT tokenization, improving login/session reliability by 95%.• Developed modular REST APIs to manage inventory, enabling real-time product updates by admins.• Added item-based and price-aware recommendation engine to boost user engagement by 15%.• Integrated PayPal, Apple Pay, and Google Pay for secure and convenient payment processing, including automated receipt generation.	
Emotion Based Music Recommendation	Jun 2023 – Oct 2023
<i>Technologies: Python, Keras, TensorFlow, CNN</i>	
<ul style="list-style-type: none">• Built real-time emotion recognition system, achieving an accuracy of 64% with simple CNN layers, which increased to 77% by using MobileNet.• Integrated Spotipy API to recommend music matching emotional states in real-time stress relief applications.	