

# Vaama Nikam

☎ (315) 450-9220 ✉ vaamanikam11@gmail.com 🔗 <https://www.linkedin.com/in/vaamanikam/> 🌐 Vaamanikam11

## EDUCATION

**Syracuse University - College of Engineering & Computer Science, Syracuse, NY**

**Aug 2023 - May 2025**

*Master of Science, Computer Science*

- **Coursework:** Computer Architecture, Database Management System, Machine Learning, Design and Analysis of Algorithm, Social Media Data Mining, Operating Systems, Internet of Things, Natural Language Processing

**University of Mumbai, Lokmanya Tilak College of Engineering, Mumbai, India**

**Aug 2019 - May 2023**

*Bachelor of Engineering, Computer Engineering*

- **Coursework:** Data Science and Big Data Analytics, Data Warehousing and Mining, Distributed Computing, Blockchain

## TECHNICAL SKILLS

- **Technical Skills:** Python, C++, Machine Learning, Artificial Intelligence, Data Science, Generative AI, Deep Learning, NLP, Large Language Models, TensorFlow, PyTorch, Computer Vision, DevOps, Rest APIs, Object Oriented Programming
- **Cloud Technologies:** Cloud Computing, AWS, Azure, GCP, Docker, Kubernetes, Cloud Infrastructure
- **Web Technologies:** JavaScript, HTML, CSS, React, Web Design, React Native, React Native, TypeScript, Front-End Frameworks
- **Data Visualization and Version Control:** Git Version Control, GitHub, SQL Database, Tableau, Power Bi, Excel
- **Operating Systems:** Windows, UNIX, MacOS

## EXPERIENCE

**CheckExplore Technologies**

**Feb 2022 - July 2023**

*AI/ML Engineer*

*Mumbai, India*

- Spearheaded the development and implementation of an AI-driven vehicle image recognition system tailored for the insurance sector, achieving a 25% increase in OCR accuracy. This innovative system streamlined the processing of extensive insurance claims by automating the extraction of intricate details like vehicle owner's name, car make, model from registration documents.
- Conducted comprehensive research and proof of concept studies to select the most effective OCR tool for extracting critical vehicle registration details. Engineered and customized multiple AI models, including ResNet101, FasterRCNN, MaskRCNN, OCRR, and YoLo V3, to enhance system accuracy and operational efficiency

**Axisvation Solutions**

**May 2021 - Dec 2021**

*Software Engineer Intern*

*Mumbai, India*

- Engineered and deployed innovative AI-driven image processing algorithms specifically designed to detect and analyze tire damages. This project resulted in a 40% improvement in damage detection accuracy across a dataset of over 10,000 images
- Developed and meticulously refined AI/ML code for the precise measurement of tire tread depth, employing both manual and digital Tyre Tread Gauge tools improving accuracy, efficiency of tire assessments, critical to processing insurance claims.

## ACADEMIC PROJECTS AND PAPERS

**Airline Status Prediction**

**May 2024**

- Developed a machine learning model using logistic regression, random forest, and gradient boosting classifiers with weather and flight data, achieving 70% test accuracy in predicting flight delays. Collected and processed 5 years of flight data from BTS and weather data using Weatherbit API.
- Technologies used: Python, Pandas, NumPy, Scikit-Learn, Gradient Boosting, Random Forest, Logistic Regression

**Mental Health Application using AI**

**Jan 2024**

- Devised a mental health application integrating Gen AI for empathetic chatbot responses, sentiment analysis, and recommendations.
- Trained SVM, CNN, and Logistic Regression models to calculate efficiency, fine-tune to give the best results.
- Technologies used: Python, React, NLP, LLM, TensorFlow, MySQL

**Real Time Traffic Analysis [Link](#)**

**May 2023**

- Developed a scalable backend solution using Python and SQL to provide real-time traffic updates on congestion and incidents.
- Integrated APIs to manage real-time data processing and storage for traffic analysis.
- Technologies used: Image Processing, Computer Vision, Python, Firebase

**Published Paper: Cyber Security in IoT [Link](#)**

**Oct 2022**

- Authored and published a paper on same in international journal IRJASET in Oct 2022, Volume 10, Issue X, ISSN: 2321-9653

## CERTIFICATIONS

- **Microsoft Azure Fundamentals:** Demonstrates knowledge of cloud concepts, Azure services, security, privacy
- **Microsoft Azure AI 900:** Demonstrates knowledge of AI workloads and considerations, fundamental principles of machine learning, computer vision, natural language processing, and conversational AI

## Extracurricular

- Volunteered at EkakiVedam Foundation, enhancing communication skills and advocating for mental health
- Led technical and cultural events at CESA-CSI, showcasing leadership, project management, creativity, and teamwork
- Led team to develop real-time system solutions during Smart India Hackathon