Vaama Nikam

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EDUCATION

Syracuse University - College of Engineering & Computer Science **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 **Aug 2019 - May 2023**
Bachelor of Engineering, Computer Engineering
- **Coursework:** Data Science and Big Data Analytics, Data Warehousing and Mining, Distributed Computing, Blockchain

EXPERIENCE

CheckExplore Technologies **May 2022 - Oct 2022**
AI/ML Intern *Mumbai, India*
- Led the development and implementation of an AI-driven vehicle image recognition system tailored for the insurance sector, enhancing performance through multithreaded programming and system-level debugging; reduced claim processing time by 30%.
- Conducted comprehensive research and proof-of-concept studies to select the optimal 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 **Jul 2021 - Sep 2021**
Software Engineer Intern Mumbai, India
- Engineered AI-driven image processing algorithms using Python and C to detect and analyze tire damages, increasing detection accuracy by 40% on a dataset of 10,000+ images.
- Developed and refined AI/ML code for the precise measurement of tire tread depth using both manual and digital Tyre Tread Gauge tools, thereby enhancing the accuracy and efficiency of tire assessments critical to processing insurance claims.

ACADEMIC PROJECTS AND PAPERS

Airline Status Prediction **May 2024**
Academic Project
- 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.

Mental Health Application using AI **Jan 2024**
Academic Project
- 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.

Real Time Traffic Analysis **May 2023**
Academic Project
- 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.

Cyber Security in IoT **Oct 2022**
Published Paper
- Authored and published a paper on same in international journal IRJASET in Oct 2022, Volume 10, Issue X, ISSN: 2321-9653

TECHNICAL SKILLS

- **Technical Skills**: C/C++ development, Python, Machine Learning, Artificial Intelligence, Data Science, Generative AI, Deep Learning, NLP, Large Language Models, TensorFlow, PyTorch, Computer Vision, DevOps workflows, Rest APIs, Object Oriented Programming, Backend systems, Scripting languages PHP, Data structures, Algorithms, BigData database management, NoSQL database (HBase), Debugging, File systems
- **Cloud Technologies**: Cloud Computing, AWS, Azure, GCP, Docker, Kubernetes, Cloud Infrastructure
- **Web Technologies**: JavaScript, HTML, CSS, React, Web Design, React Native, NodeJS, TypeScript, Front-End Frameworks
- **Data Visualization and Version Control**: Git Version Control, GitHub, SQL Database, Tableau, Power Bi, Excel
- **Operating Systems**: Windows, UNIX, MacOS

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