BHUVAN THIRWANI

+1 (716) 228-4256 | bhuvanth@buffalo.edu | linkedin | github | leetcode |

SUMMARY

ML Developer with more than **2 years** of experience in technologies such as **AWS, Python, Keras, Tensorflow, Deep Learning, Machine Learning, Docker & Kubernetes**. Pursuing **MS** in **CSE** from **SUNY Buffalo**. Seeking Summer Internships for 2025. Owns 2 AI Based Software Products in Electric Vehicle Manufacturing Plant using Cameras. Fast learner with good problem solving skills.

TECHNICAL SKILLS

Technologies: AWS, Docker, Kubernetes, Machine Learning, Deep Learning, Object Detection, Computer Vision, Natural Language Processing
Languages: Python, Javascript, SQL, NoSQL
Frameworks: Keras, Tensorflow, Pytorch, Pandas, Numpy, YOLO
Others: Implement Best Practices, Documentation, Object-Oriented Design Solutions, Technical Documentation

EXPERIENCE

Member of Technical Staff-1   July 2022 - August 2024
Euler Motors, New Delhi - it's an electric vehicle manufacturing company.   *Delhi, India*
- Owns 2 AI Based Software Products Developed pioneered feature for vehicle hardware data extraction & boosted electrical components testing by 500% using **Computer Vision** System. Applied advanced Analytics to monitor vehicle performance and detect issues remotely via cloud Networking.
- Developed Real-time data pipeline using cameras in manufacturing plant to track all the vehicles
- Created visual representations of KPIs using real-time data of 5000 EVs Product, resulting in improved decision-making processes.
- Implemented **Docker** and **Kubernetes** for projects deployment, elevating platform efficiency and scalability by 5 times.

Software Engineer Intern   Jan 2022 - June 2022
Paytm Money, Fintech Oraganisation involve in Stock Market   *Noida, India*
- Implemented Live Feed Data of 7000 Stocks using Asynchronous **NodeJS** and **Websocket** Technology & Completed Load - testing for 100,000 customers simultaneously. Utilized Quantitative methods and Networking protocols to optimize data delivery and performance.
- Reduced the Real-time stock market data latency from 400ms to 2ms using reactive programming- **Springboot** (MVC), **MySQL** and **Redis** Cache using Java - 8.

Machine Learning Research Intern   April 2021 - Jul 2021
DRDO, Research and Development on techniques to evaluate inaccessible terrains mobility.   *Chandigarh, India*
- Created Landslide Prediction Model & Landslide Susceptibility Index Map for Search and Rescue team.
- Used **Oversampling** and **Undersampling** techniques, **GRID SEARCH CV** with Weighted **Decision Tree** model & Naive Bayes
- Implemented Frequency Ratio & Multi-Criteria Decision techniques for generating vulnerability map with 99% accuracy.

PROJECTS

AI Proctoring System using Deep Learning Techniques | *Deep Learning, Object Detection, Computer Vision, SQL*   Aug 2021 - Nov 2021
- Designed a Web Application for conducting online exams with 15+ features for Students and Professors using YOLO3 and CNN.
- Performed Eye Tracking, Face Authentication & Security, Head Movement Tracking, Mobile Phone Detection, Multiple Person Detection, Tab/ Window Switching & Voice Detection to monitor 1000 Students simultaneously using CNN & Computer Vision.
- Composed a **Research Paper** (Under Review) - Proctoring System using Deep Learning Techniques in AIRHS 22 National Virtual Conference on AI for Resilient Happy Society.

Gen AI Pdf Chatbot | *Python, Pinecone, AWS*   Jan 2021 - Feb 2021
- Developed Gen-AI PDF Chatbot that allows users to interact with and query PDF documents via an AI-driven chatbot interface.
- Integrated **Pinecone** and **Vector DB** to create efficient search and retrieval of relevant PDF content based on user queries.
- Deployed the solution using **AWS Lambdas**, ensuring scalability and seamless web integration.
- Leveraged **LLM (Large Language Models)** for natural language processing to accurately respond to questions derived from the PDF content

EDUCATION

University at Buffalo State University of New York   Buffalo, NY, USA
Master of Science in Computer Science   *Aug 2024 - Present*
Indian Institute of Information Technology Pune   Pune, India
B.Tech in Computer Science & Engineering   *2018 - 2022*

CERTIFICATIONS

- **Machine Learning** by **Andrew NG** - Coursera, authorized by **Stanford University.**
- **AWS Cloud Practitioner Essentials** - Amazon Web Services.
- **Algorithmic Toolbox** by **University of California San Diego** - Coursera.