LEELA SRIJA ALLA

Email : *srijaalla1001@gmail.com* | **Mobile** : *+1 (716) 705-1957* | **Links** : Github, Linkedin, Website

EDUCATION

University at Buffalo (SUNY) *(2023 - 2025)*	Masters in Computer Science	CGPA: ***3.83/4.0***
University of Hyderabad *(2017 - 2022)*	Integrated Masters in Technology, Computer Science **Honor:** *Best Student Paper at 19th International* Conference on Distributed Computing and Intelligent Technology 2023	CGPA: ***3.39/4.0***

WORK EXPERIENCE

SOFTWARE ENGINEER, One Convergence Devices Pvt Ltd, Hyderabad *(Aug 2022 - Apr 2023)*

- Streamlined DKube's user experience by architecting a user-friendly interface with ReactJS, resulting in a significant 30% decrease in total integration time for model deployment
- Proficient in Kubernetes and Docker, actively contributing to seamless deployment processes.

FULL STACK WEB DEVELOPER (Intern), Jindal Trading Co., Delhi *(Oct 2020 - Dec 2020)*

- Designed and developed an E-Commerce hub during the COVID era to streamline new user onboarding, catalyzing a remarkable traffic upswing from 40 to 70 daily visitors and contributing to a 15% increase in overall sales.
- Employed advanced Search Engine Optimization (SEO) strategies to fortify website performance, resulting in a 20% boost in conversion rates. Successfully contributed to driving business growth by recruiting potential candidates to take over.
- Led a team of 4 members and was also a part of hiring new interns.

PROJECTS

Coloring Black & White Images with ResNet, U-Net and GAN - PyTorch *(Dec 2023 - Present)*

- Implemented a conditional GAN backed by ResNet to predict the colors using images from COCO dataset.
- Implemented supervised training on U-Net as a generator and achieved a 10% improvement in image segmentation accuracy.

Crime Analysis in Los Angeles - Scikit learn, Pandas, Flask, ReactJS *(Sep 2023 - Nov 2023)*

- Performed data Visualization and cleaning on the Los Angeles Crime Dataset. Fine-tuned machine learning models like logistic regression, KNN, and K-means clustering are used to classify crime types and identify hotspots. Optimized models for interpretability and performance.
- Made an Interactive User Interface of trained models using Flask and ReactJS.

Opinion Maximization in Signed Social Networks - NetworkX, Social Network Analysis *(Oct 2021 - July 2022)*

- Formulated an approach to simulate marketing strategies and their impact using Graph Theory and tested on SNAP datasets.
- Proposed three algorithms that spread a desired opinion across a network. There was more than 100% improvement in the positive opinion of networks used.

Pen Ink Differentiation for Handwritten Document Forensics - OpenCV, Keras, TensorFlow *(Jan 2021 – May 2021)*

- Designed a model to detect different pen inks in handwritten documents, using Convolutional Neural Networks (CNN).
- Used different state-of-the-art models to detect fraudulence bank cheques with an accuracy of 94%.
- Opitimized the model with image processing techniques to ensure high accuracy and reliability.

Vehicle Collision Detection and Alcohol Detection System - Arduino, IoT sensors *(Jun 2019 – Jul 2019)*

- Developed a prototype with a 90% accuracy in predicting vehicle collisions and alcohol consumption, leveraging IoT solutions.
- Leveraged Arduino and IoT sensors to construct a robust system with a 15% reduction in false alarms

PUBLICATION

- Alla, Leela Srija, and Anjeneya Swami Kare. "Opinion Maximization in Signed Social Networks Using Centrality Measures and Clustering Techniques." Distributed Computing and Intelligent Technology: 19th International Conference, ICDCIT 2023, Bhubaneswar, India, January 18–22, 2023, Proceedings. Cham: Springer Nature Switzerland, 2023.

TECHNICAL SKILLS

Languages: C, Java, Python, JavaScript, React JS, Node.js, MySQL, PHP, HTML, CSS, Ruby on Rails, Shell Scripting
Frameworks: TensorFlow, Data Mining, Flask, Scikit-learn, NetworkX, OpenCV, Keras, PyTorch
Technologies/Environments: Unix, CI/CD, Docker, Kubernetes, Git, Latex

POSITIONS OF RESPONSIBILITY

- Part of **Blackstone LaunchPad's** *Start up and Innovation Collaboratory* at **University at Buffalo**.
- **Led a team** of 6 members as a part of **Smart India Hackathon 2022**. Engineered a computer vision-based application to manage and monitor vehicle traffic using the Internet of Things.
- Participated in **Chatra Vishwa Karma** by **AICTE** in 2019.
- Volunteered in Green revolution by ICCE.