

LEELA SRIJA ALLA

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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	CGPA: 3.39/4.0
	Honor: Best Student Paper at 19th International Conference on Distributed Computing and Intelligent Technology 2023	

WORK EXPERIENCE

SOFTWARE ENGINEER , One Convergence Devices Pvt Ltd, Hyderabad	(Aug 2022 - Apr 2023)
<ul style="list-style-type: none">Built a user interface for DKube to enable users to deploy models with a few clicks using ReactJS.Proficient in Kubernetes and Docker, actively contributing to seamless deployment processes.Acquired expertise in firewall construction and network monitoring during tenure, enhancing cybersecurity awareness.	
FULL STACK WEB DEVELOPER (Intern) , Jindal Trading Co., Delhi	(Oct 2020 - Dec 2020)
<ul style="list-style-type: none">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, Machine Learning	(Dec 2023 - Present)
<ul style="list-style-type: none">Developed a conditional GAN backed by ResNet to predict the colors from grayscale images.U-Net is used as a generator and is trained in a supervised manner before adversarial learning is introduced.	
Crime Analysis in Los Angeles - Scikit learn, Pandas, Flask, ReactJS	(Sep 2023 - Nov 2023)
<ul style="list-style-type: none">Performed data Visualisation and cleaning on Los Angeles Crime Dataset. Developed and evaluated machine learning models like Logistic Regression, KNN, and K-Means Clustering 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)
<ul style="list-style-type: none">Formulated an approach to simulate marketing strategies and their impact using Graph Theory.Proposed three algorithms that spread a desired opinion across a network.	
Pen Ink Differentiation for Handwritten Document Forensics - Python, Image Processing	(Jan 2021 - May 2021)
<ul style="list-style-type: none">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%.Employed a powerful technology stack, including OpenCV, TensorFlow, and Google Colab, to ensure high accuracy and reliability.	
Vehicle Collision Detection and Alcohol Detection System	(Jun 2019 - Jul 2019)
<ul style="list-style-type: none">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** a 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.
- Member of a coding club at UOH, organized and participated in events conducted by it.
- Volunteered in Green revolution by ICCE.