

# SRIKANTH KARRE

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## EDUCATION

**Texas A&M Kingsville**, Kingsville, Texas

May 2023

Master of Science, Computer Science

- Relevant Coursework: Fundamental Algorithms, Data Structures, Operating Systems, Mathematical Techniques for Computer Science, Programming Languages

**Chaitanya Bharathi Institute of Technology**, Hyderabad, India

May 2019

Bachelor of Engineering, Computer Science and Engineering

- Relevant Coursework: Discrete Mathematics, Principles of Programming Languages, Database Management Systems, Distributed Computing, Information and Network Security, Computer Networks, Object Oriented Programming

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## SKILLS

- **Coding Languages:** Python, C++, C, Java, PHP, JavaScript, HTML, AngularJS, SQL, VB.Net,
- **Machine Learning:** PyTorch, TensorFlow, Keras, Scikit-learn, Colab, Kaggle, Yolo, Darknet
- **Other Tools:** Git, Postman, Flask, Django, fastAPI, Swagger, Hyperledger fabric, Tkinter

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## EXPERIENCE

**Texas A&M Kingsville**, Kingsville, Texas

Jul 2022 - Dec 2022

Graduate Research Assistant

- Set up a Raspberry Pi stack consisting of four devices and installed Hyperledger Fabric on the stack. Subsequently, established a Modular Blockchain network by segregating the Fabric network, channel, and peers across multiple devices.

**CHINGARI**, Bengaluru, India

Apr 2021 – Nov 2021

Data Scientist

- Worked on the "Shop the Look" project, which allows Chingari, a social networking platform user's to shop for clothing and fashion accessories similar to those seen in the videos. This feature increased user engagement with the app by 50%.
- Built a Deep Learning CNN outfit colour identification model which identifies colour of clothes with 94% accuracy, and goggles colour detection model using Scikit-learn for determining goggles colour by 96% accuracy.
- Constructed a YOLOv4 darknet model that achieved a 90% accuracy in identifying the collars of shirts and t-shirts.

**Globussoft**, Bengaluru, India

Jan 2020 – Mar 2021

Data Scientist

- Worked closely with the content moderation team and designed a Flask API that integrates the Spam Video Detection YOLO model for detecting spam videos in a video stream. This model resulted in a significant 95% reduction in manual workload.
- Created a Content-based News Recommendation system to suggest news that match users' interests. The system utilises Django API to retrieve user activity and responds with similar news articles. This increased application usage by 20%.
- Deployed Employee Activity Monitoring software for Windows and Linux using Python and Tkinter that monitors employee app/website usage, keystrokes, and screenshots at specific intervals, with data uploaded to a cloud server, resulting in 90% productivity improvement for employees as evaluated by companies.

**Beta Scientifics**, Bengaluru, India

May 2019 – Dec 2019

Software Developer

- Collaborated with the gas stations, cab services and deployed an application using Java and Google Firebase for internal use within an organisation. The app enables cab drivers to request gas filling for a custom amount, with requests forwarded to a gas station and cab service managers for approval.
- This system removed manual workload by 80% and enabled transparent transaction records, timely billing, also providing the ability to track monthly gas spending by cab service.

**United Care Development Services - Yousee**, Hyderabad, India

May 2018 – Jul 2018

Software Developer Intern

- Created a real-time web application using PHP and AngularJS to maintain complete details of one or more bank account transactions of an organisation which helps to monitor all transactions made from all bank accounts the organisation has.

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## PROJECTS

**JARVIS - Virtual Home Assistant** (Java, Python)

Spring 2019

- Developed a voice module which converts voice commands from user into text commands with 100% accuracy using google speech-to-text (STT) engine. These commands are then sent to raspberry pi which sends control signals to home appliances.
- Developed an android application using java integrated with Vuforia Object Scanner library to identify objects with 95% accuracy and send appropriate signals to raspberry pi to control home appliances.
- The assistant is easy to use and specially designed for visually challenged, speech impaired and physically disabled people.