# VONTELA SANJAY KUMAR
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## SKILLS

**Programming Languages:** Python, Java, C, Dart, PHP, Java Script
**Databases:** MySQL, MongoDB, PostgreSQL
**Framework:** Flutter, Nodejs, Laravel, Spring Boot
**Related  Skills: :** Data Analytics| Computer Vision | Data Modelling | Web Development | Flutter Development | Statistics |
Machine learning | Deep Learning | GitHub | REST API | Microservices | Spring Security | Spring MVC

## WORK EXPERIENCE

**Full Stack Developer (Internship) Elagandal Times**                                                    **Mar 2022 – Jul 2022**

- Developed an ePaper with PDF paper display and download functionality.
- Implemented a user-friendly date selection feature to streamline paper access and retrieval.

**Machine Learning Engineer (Internship) Vignanajyothi Institute of Engineering & Technology**        **Jun 2020 – Aug 2020**

- Developed a smart attendance system using vggface and VGG16 algorithms for facial recognition, considerably reducing attendance-taking time by around 80%.
- Implemented robust data processing techniques to enhance the accuracy of the smart attendance system, optimizing feature extraction and improving recognition performance.

## EDUCATION

**Master of Science in Computer Science**                                                    Anticipated Graduation Date: **May 2024**

University of  Texas, Arlington , TX

**Coursework**: Computer Vision, Machine Learning, Distributed Systems, Design and Analysis of Algorithms, Web Data Management, Data Mining.

**Bachelor of Technology in Information Technology**                                                                    **July 2022**

Sreenidhi Institute of Science and Technology, India

## PROJECTS

**Brain tumour Segmentation -** Using Python and Tensorflow

- Implemented VGG16-weighted U-Net model for precise brain tumor segmentation in medical images.
- Utilized TensorFlow, Keras, and OpenCV to preprocess data, train models, and evaluate performance.
- Achieved robust results assessed through metrics like Jaccard Index, contributing to medical image analysis.

**Backdoor using python** – Python with Socket Programming

- Developed and implemented a secure Python backdoor for remote command execution, file management, and directory control on target machines.
- Applied socket programming techniques to establish secure communication between the backdoor and listener scripts, emphasizing JSON serialization for structured data exchange.
- Acquired foundational knowledge of cybersecurity concepts, demonstrating awareness of potential risks, ethical considerations, and the significance of secure coding practices.

**AI based Security System** – Python, Darknet, Darkflow

- Designed and implemented a real-time gun detection system using OpenCV and the YOLO (You Only Look Once) model, showcasing advanced computer vision skills.
- Integrated a comprehensive alert mechanism that includes sound notifications and automatic email alerts, demonstrating proficiency in system integration and communication.
- Contributed to enhancing security measures by developing a robust solution for identifying potential threats, highlighting a keen understanding of both computer vision and cybersecurity principles.

**University Website** – Reactjs with laravel

- Developed a university website featuring distinct roles for Students, Admins, Quality Assurance Officers, and Instructors.
- Employed React.js for the frontend interface, Laravel as the framework, and MySQL for the database.
- Implemented role-based access control to ensure appropriate access and permissions for each user type.
- Established seamless integration between the frontend, backend, and database components for efficient data management and user interaction.
- Worked with a team to build and launch new features on time and with quality.

**Movie Client** – Reactjs with Spring boot

- Created a website using Spring Boot and React where users can watch movie trailers and leave reviews.
- Made it easy for users to share their thoughts on movies they've watched.
- Ensured the website runs smoothly by connecting the front and back ends effectively.

**Job Listing** – Reactjs with Spring boot

- Built a website using React where users can browse job listings and filter them by keywords.
- Developed a backend system with Spring Boot to manage data for the React application.
- Utilized MongoDB Atlas to store and retrieve data from the database.
- Ensured seamless communication between the frontend and backend to provide a smooth user experience.