

# SHASHANK REDDY BOYAPALLY

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## TECHNICAL SKILLS

**Technologies and Tools:** Computer Vision, Image Processing, Machine Learning, Neural Networks, CNN, R-CNN, YOLOv3 framework, OpenCV, mediapipe, TensorFlow, PyTorch, ReactJS, React Native, ExpressJS, MongoDB, PostgresDB, MySQL, Firebase, Django, Git and GitHub, Bamboo, Postman, Octopus and OpenShift.

**Languages:** C, C++, J2SE, Python, JavaScript, HTML and CSS.

## INTERNSHIPS

- **Software Engineering Intern, Honeywell Technological Solutions (Aero Division), Hyderabad.** Mar '22 – May '22
  - Migrated the Business Management System - manages the Billing and subscription service operated by AMRs from Internet Explorer to Chromium based browsers.
  - Used struts framework along with JSP. Saved up to **165 hours** per month of manual work done by AMRs. **Boosted efficiency.**  
**Takeaway:** Gained knowledge how legacy applications work and maintained.
- **Software Engineering Intern, Honeywell Connected Enterprises, Bangalore.** Apr '21 – Jun '21
  - Developed an automated testing environment using Octopus and Protractor in an Agile environment, **conserving time for the task from 60 to 5 mins. Boosted efficiency up to 80%.**
  - Leveraged React in the Front-end and Django for backend along with usage of Microsoft Azure PostgresDB and Storage.  
**Takeaway:** Grasped hands-on projects and an idea of the way industry works along with its principles. Learnt various web technologies – React, Django, Bamboo.
- **Data Analytics Virtual Intern, KPMG International, WFH.** Apr '20 – May '20
  - Analysed quality of the dataset provided by a medium-sized bike accessories company, Sprocket Central.
  - Assessed dataset, performed data transformations, feature engineering, and modelling using various tools like Tableau and Power BI. It led to **discovery of 40% more potential customers** based on demographics and transaction history.  
**Takeaway:** Worked on data from real world, realized the potential hurdles one might face using the real-world data, and steps to overcome those hurdles in data analysis.

## PROJECTS

- **Pedestrian Jaywalking Detector** Mar '22 – May '22  
**Objective:** Identify pedestrians who jaywalk at traffic signals and on roads, identify them with their facial structure and map the identified violators with Aadhar Database (Govt. of India Database for citizens). A fine is levied after mapping on the violator.  
**Role:** Team lead, Computer Vision Developer and Back-end Dev.  
**Tools used:** TensorFlow, OpenCV, mediapipe, YOLOv3, dlib, face\_recognition, MySQL.
- **Object Detection Using YOLO-v3** Dec '20 – Jan '21  
**Objective:** Develop a computer vision program that can detect basic objects in frame of the camera, and announce objects in vision, to help visually impaired people. Communicated with visually impaired and professors for better understanding of approach.  
**Role:** Machine Learning and Computer Vision Developer.  
**Tools used:** TensorFlow, OpenCV, Darknet-53, YOLOv3, Python.
- **No Touch Volume Controller** Oct '20 – Nov '20  
**Objective:** Implement a computer vision program which changes volume using hand gestures, with Average Precision of 95.7%  
**Role:** Computer Vision Developer.  
**Tools used:** Mediapipe, OpenCV, pycaw, Python.

## PUBLICATIONS and PRESENTATIONS

- **Published a research article** *Natural Language Processing with disaster tweets using bi-directional LSTM* in the Journal of Xi'an University of Architecture and Technology. (May '21, ISSN: 1006-7930)  
**Takeaway:** Grasped the basics of bi-directional LSTM in NLP using the tweets collected during disasters.
- **Published a research article** *Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumor Detection* in High Technology Papers, Volume 9, Issue 27. (Sep '21, ISSN: 1006-6748)  
**Takeaway:** Compared various pre-trained neural networks and analysed which can be used for practical purposes.
- **Attained second position** in paper presentation on *Facial Recognition and Attendance System Using dlib and Face Recognition Libraries* in a state-level conference conducted by Computer Society of India, since 1965. (Dec '20).  
**Takeaway:** Understood how paper presentations are organized, met many industry leaders and got to know their experiences.

## EDUCATION and ACADEMIC QUALIFICATIONS

**University of Florida, Gainesville, Florida.**  
Master of Science, Computer Science.

Aug '22 – Present

**Jawaharlal Nehru Technological University College of Engineering Hyderabad, Hyderabad, India.**

Aug '18 – Jun '22

Bachelor of Technology, Computer Science & Engineering, CGPA: 8.58/10 or 3.9/4 (according to WES evaluation).

## CERTIFICATES

- Google Cloud Program, Dec '20.
- Certificate of Merit, CSI, Telangana. Dec '20.