**BOYAPALLY SHASHANK REDDY**

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**ACADEMIC QUALIFICATIONS**

**Jawaharlal Nehru Technological University College of Engineering Hyderabad**, Hyderabad, India. **Aug '18 – Jun '22**

Bachelor of Technology, Computer Science & Engineering, **CGPA**: 8.45/10

**ACADEMIC PROJECTS**

* **COVID-19 Help Desk, team size: 4 Mar '21 – May '21**

**Objective:** Provide informationabout the availability of beds and various medications available in each hospital for the citizens, along with filters based on their location during the severe second wave of COVID-19.

**Role:** Team Lead, Full Stack Web Developer, and Mobile Application Developer.

**Tools used**: ReactJS, Material UI and other various libraries, Firebase, React Native for Mobile Application Development.

* **Object Detection Using YOLO-v3, team size: 2 Dec '20 – Jan '21**

**Objective:** Develop a computer vision program that can detect basic objects in the frame of the camera, and announce objects in vision, to help visually impaired people.

**Role:** Machine Learning and Computer Vision Developer.

**Tools used**: TensorFlow, OpenCV, Darknet-53, YOLOv3, Python.

* **No Touch Volume Controller, team size: 2 Oct '20 – Nov '20**

**Objective:** Develop a computer vision program such that the volume can be changed using hand gestures without human touch.

**Role**: Computer Vision Developer.

**Tools used**: Mediapipe, OpenCV, pycaw, Python.

**INTERNSHIPS**

* **Honeywell Technological Solutions*, Software Engineering Intern*,** Bangalore **Apr '21 – Jun '21**
* Developed an automated testing environment using Octopus and Protractor, conserved the time for the task from 60 to 5 mins.
* Used React in the Front-end and django for backend along with usage of Microsoft Azure PostgresDB and Storage Account.

**Takeaway:** Learnt hands-on projects and an idea of the way industry works along with its principles.

* **KPMG International, *Data Analytics Virtual Intern*,** WFH **Apr '20 – May '20**
* Analysed the quality of the dataset provided by a medium-sized bike accessories company, Sprocket Central.
* Used the dataset provided, conducted data transformations, feature engineering, and modeling using various tools like Tableau and Power BI. It led to the discovery of 40% more potential customers based on their demographics and transaction history.

**Takeaway:** Worked on data from the real world, understood the potential hurdles one might face using the real-world data, and the steps to overcome those hurdles in data analysis.

**PUBLICATIONS AND PRESENTATIONS**

* **Published a research article** [*Natural Language Processing with disaster tweets using bi-directional LSTM*](https://www.xajzkjdx.cn/gallery/1-may2021.pdf) in the Journal of Xi'an University of Architecture and Technology. (May '21, ISSN: 1006-7930)

**Takeaway:** Understood the basics of bi-directional LSTM in NLP by the use of the tweets collected during disasters.

* **Published a research article** [*Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumor*](http://www.gjstx-e.cn/gallery/71-sep2021.pdf) *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 state level conference conducted by Computer Society of India, since 1965. (Dec '20).

**Takeaway:** Understood how paper presentations are conducted, met many industry leaders, and got to know their experiences.

**TECHNICAL SKILLS**

**Technologies and Tools:** ReactJS, React Native, ExpressJS, MongoDB, PostgresDB, MySQL, Django, Git and Github Bamboo, Postman, Octopus, OpenShift, Computer Vision, Image Processing, Machine Learning, Neural Networks.

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

**CERTIFICATES**

* 30 Days of Google Cloud Program, Dec '20.
* Certificate of Merit, CSI, Telangana. Dec '20.
* Python for Data Science and Machine Learning, Udemy, Jul '20.
* HackerRank Certified Python Programmer, Jun '20.

**EXTRACURRICULAR ACTIVITIES and VOLUNTEERING**

* **Treasurer** and member of the Executive Committee of **IEEE Student Body JNTUHCEH**, Jun '21 – present.
* Undertook extra classes on Database Management Systems for my juniors in the University, Jun '21 – Aug '21.
* Participated in various **National Service Scheme (NSS)** programmes such as Gandhian Padayatra and many more, 2019 – present.
* **Volunteer Teaching Assistant** at a public school, undertook extra classes on weekends for mathematics for underprivileged students, 2018 – 2020.