SAI SRI TEJA KUPPA

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Education

SASTRA Deemed University   **2021 Batch**
Bachelor of Technology in Electronics and Communication Engineering   *CGPA: 8.08/10*

Relevant Coursework

- Deep Learning
- Linear Algebra
- Probability and Statistics
- Intro to Robotics

Experience

Detect Technologies Pvt Ltd   **July 2022 - Present**
Deep Learning Engineer - I   *Chennai, TamilNadu*

- Deep learning model(Classification, Detection and Segmentation) development and testing for CCTV surveillance applications.
- Hands on experience in working with softwares such as nvidia-deepstream for real time deployment.
- Hands-on experience with MLOps software(WandB), including experimenting, managing and deploying machine learning models in production environments.
- Hands-on experience with GAN technology to enhance model accuracy and robustness through rigorous testing.

Healthcare Technology Innovation Center - IIT Madras   **Feb 2021 - June 2022**
Project Associate   *Chennai, TamilNadu*

- Developed an entire package for robot assisted needle based Spine Surgery in python. This in includes kinematics, path planning, singularity detection and Collision avoidance.
- Experience of working with real time robots, KUKA(Industrial Robot) and Han's Elfin Robot(Collaborative Robot).
- Experienced in working with robotics and ROS (Robot Operating System), a software platform for building and operating robotic systems. Proficient in programming robots to perform tasks, integrating sensors and hardware, and developing algorithms and software for robotics applications.

Projects

Speech Disfluency Detection Using Deep Learning | *Python, Heroku, Keras, Librosa*   **09/2020 - 12/2020**

- Built a website for data collection of audio samples and deployed in Heroku(using flask) and the data is stored in an AWS S3 Container.
- Built a custom RESNET and trained it using spectograms of audio for disfluency detection(filler words and repetitons) with a accuracy of 75 percent.

Sign Langauge Video Generator using GAN | *Python, TensorFlow*   **05/2020 - 08/2020**

- Part of a 5 member team responsible for designing a complete sign language translation, which is sponsored by govt. with funding of 40 lakhs.
- Developed a deep learning GAN model for generating pose estimation sign language video of the user.

Emotion Recognition using 3D Convnets. | *Keras*   **01/2020 – 04/2020**

- Developed 3D convent deep learning architecture for the classification of emotion among seven.
- Used augmentation techniques for the generation of new data which helped to build an efficient model.

Technical Skills

Frameworks-Packages: Keras, PyTorch, Scikit-learn, Scipy, Numpy, WandB, Tensorflow, OpenCV, Pandas
Developer Tools: VSCode, Jupyter Notebook
Technologies: Linux, GitHub, Git, Colab, AWS, ROS, Pybullet
Languages: Python

Extracurricular Activities

Spoken Languages: Telugu(Native), English(Proficient), Tamil(beginner)
Clubs: Member of Robotics Club SASTRA University.
Extra Skills: Handling Peer Pressure, Leadership, Team Work, Research Oriented Vision.

Achievements

- One among the world top 5 Teams in KUKA Robotics Challenge(2021).