Venkatarao Rebba

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SUMMARY

First-year Master student in Robotics and Autonomous Systems with 5+ years of experience in deep learning, machine learning, computer visi on, and software development technologies. Delivered solutions in video & audio anomaly detection, video classification, and object detection problems. Seeking summer internship opportunities in deep learning, computer vision and Robotics fields.

Area of Interest: Robotics, Deep Learning, Reinforcement Learning, and Computer Vision

EDUCATION

M.S in Robotics and Autonomous Systems (AI) Expected May 2023
Arizona State University, Tempe, AZ 3.7 GPA
Relevant Coursework: Artificial Intelligence, Reinforcement Learning

Bachelors in Electronics and Communication Engineering June 2012 - May 2016
Rajiv Gandhi University of Knowledge Technologies, Nuzvid, AP, India 8.8/10 GPA

COURSES

- ROS2 Ultimate Guide for Kuka 6-DOF and Custom Robotics Arms | Udemy 10/2021 – 12/2021
- Self-Driving Car Specialization | University of Torrento | Coursera 01/2021 – 11/2021
- Deep Learning Specialization | Deeplearning.AI | Coursera 01/2018 - 06/2018
- Foundation of Artificial Intelligence and Machine Learning | IIIT Hyderabad 01/2018 – 06/2018

TECHNICAL SKILLS

Programming Languages : Python, C/C++, Java
Frameworks, Libraries : TensorFlow, Keras, PyTorch, openCV, openAI-Gym, ROS, Gazebo, Docker, Rviz, Flask, MATLAB, Scikit Learn, Pandas, Matplotlib, NumPy

PROFESSIONAL EXPERIENCE

Cerium Systems, Bangalore, India: Senior Engineer 06/2018 - 08/2021

- Led AI team of 4 members to build CNN, RNN, GAN models for video and audio quality assessment objectives for Intel platforms & drivers verification.
- Re-designed CNN model for video quality verification that reduced model size from 2GB to 440MB (465%), and improved training and inference performance significantly
- Created Auto-ML stack for training and tuning audio model that facilitates to build a model 10x faster
- Optimized audio data pre-processing mechanism, reduced overall training time for a model from 5hrs to 2hrs (250%)
- Boosted inference performance from 20 images/sec to 60 images/sec (300%)
- Simulated ~10GB image & audio dataset by generating anomaly patterns and applying augmentation techniques

Vassar Labs, Hyderabad, India: Software Engineer 01/2016 - 04/2018

- Implemented two machine learning models to forecast the rain probability in Andhra Pradesh state, India
- Developed linear regression model to impute the missing data for the size of 100k samples.
- Worked in full-stack development for creating three dashboards and two android applications
- Created 20 REST APIs by fetching and processing data from the MySQL database for dashboard development
- Improved MySQL query performance which cut down the dashboard load time by 55%
- Automated data base management that aided system to achieve 5x faster results.

VOLUNTEER

- Volunteer trainer for data science classes to the community
- Member of Rossum Rumblers robotics group at ASU
- Active member of SME group, a non-profit group of manufacturing industry.