RAJU TADISETTI

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I am interested in the development of agents that are capable of learning new things or adapting to new environments quickly as humans.

Education

Master Of Science, Robotics **2021-2023**
University at Buffalo, Buffalo, NY CGPA: 3.17/4

Bachelor of Technology, Computer Science and Engineering **2014-2018**
Velagapudi Ramkrishna Siddhartha Engineering College (Vijayawada, Andhra Pradesh.)
CGPA: 7.06/10

Employment

Assistant System Engineer **June 2018 – March 2020**
Tata Consultancy Services Nagpur, Maharashtra, India

- I worked on the development of an In-Vehicle Infotainment (IVI) System for Nissan cars. In this project, I worked on tools like Visual state, Sequence Designer and JIRA

Technical Skills

Programming Languages Python
Deep Learning Frameworks Pytorch
ReinformentLearning and Robotics Open AI Gym, Ros

Projects

Project on Implementation of Q-learning, SARSA algorithm, Double Q-learning on customized 8*8 grid environment based on Markov decision process and fine-tuning the best hyperparameters

Project on analyzing the performances of different policy gradient algorithms like Vanilla policy gradient, Trust region policy optimization, and proximal policy optimization in gym environments.

Project on implementation of optical character recognition system, this project involves detection and recognition of characters in an image. The detection of characters was done by using connected component analysis and recognition was done by using Sum of Squares Difference (SSD).

Project on Implementation of A* algorithm for path planning in stage environment using Robotic operating system (Ros)

Prediction of Election Result using Twitter data. In this project, I collected tweets mentioning 2 political parties from Twitter, performed text analytics on those tweets, and classified tweets related to each political party as positive, negative, or neutral. Based on these classifications, I trained the Machine learning model using a Decision tree and neural network algorithm to classify the tweets.

Project on implementation of Support vector Machines, K-Nearest Neighbors and Decision tree algorithms on loan data. I trained these machine learning models to classify the loan status of customers to Paidoff or not. The features of customers like age, principle, terms etc.

Ongoing Projects

Project on analysis and improvisation of current video classification approaches using Meta-learning.

Project on analyzing the performance of meta learning algorithms like MAML, ANIl and Reptile.