DHANUSH KUMAR REDDY YARRAGONDA

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COURSEWORK

- Reinforcment Learning
- Data Structures
- Algorithms
- Data Structures
- Machine Learning
- Deep Learning
- Data Intensive computing

TECHNICAL SKILLS

LANGUAGES

Python, Shell Scripting, SQL, YAML, HTML

DEVELOPER TOOLS

Git, GitHub, GitHub Actions, VS Code, Android Studio, Eclipse, Postman, Docker CLI, Git Bash

TECHNOLOGIES/ FRAMEORKS

Flask, Django (Basic), Docker, Kubernetes (Basic), Jenkins (Basic), Terraform, Ansible (Basic),AWS,Azure,GCP

LEADERSHIP & EXTRACURRICULAR

CAMPUS DINING AND SHOPS

STUDENT LEADER *Buffalo, NY*

- Assisted academic and administrative staff by coordinating schedules, organizing documentation, and supporting day-to-day operations
- Regularly engaged with professors and department managers to help manage events, meetings, and student communications, improving team efficiency

EDUCATION

UNIVERSITY AT BUFFALO

Aug 2022 – Jan 2024

MASTER OF SCIENCE IN COMPUTER SCIENCE *Buffalo, NY*

VELLORE INSTITUTE OF TECHNOLOGY

Aug 2018 – May 2022

BACHELOR'S IN ELECTRONICS AND COMMUNICATION ENGINEERING *Vellore, India*

WORK EXPERIENCE

SIRI SOLUTIONS INC

Dec 2024– Mar 2025

SOFTWARE DEVELOPER *Sterling, VA*

- Designed and deployed scalable backend modules using Python on cloud-hosted servers (AWS EC2).
- Automated routine tasks and deployment processes with custom Python and shell scripts, reducing manual effort by 60%.
- Built REST API integrations and automated testing using Postman and Python scripts.
- Contributed to infrastructure automation using Git and Docker for consistent environment setup.

SACRO

Jan 2024-Nov 2024

PYTHON DEVELOPER INTERN *Fremont, CA*

- Developed and automated data processing pipelines using Python, improving reporting efficiency by 40%.
- Implemented unit tests using pytest, increasing code reliability and test coverage.
- Optimized scripts and integrated logging to enhance monitoring and reduce runtime errors.
- Introduced basic CI workflows using Git and GitHub Actions for testing automation.

PROJECTS

EMOTION RECOGNITION FROM FACIAL EXPRESSIONS

May 2023

- Collaborated with a team to Train a deep learning model to recognize human emotions based on facial expressions. This can be used in a range of applications from user interface design to mental health monitoring
- Evaluation of six distinct models including Basic CNN, Simple ResNet, Variation of GoogleNet, UNet (Encoder and Decoder), NewNet, and RogleNet.
- Implementation of innovative techniques such as data augmentation, weighted cross-entropy loss, and optimization algorithms like SGD and Adam for enhanced model performance

DEEP REINFORCEMENT ALGORITHMS (PYTHON, NEURAL NETWORKS)

Nov 2022

- Implemented Deep Q-Networks (DQN), Double DQN (DDQN), Actor Critic, Advantage Actor Critic Algorithms to solve custom multiAgent environments such as Tic-Tac-Toe, Rock Paper Scissors and Switch Game.
- Built a custom model using innovative techniques like experience relay methods, enhancing performance of existing algorithm, achieving over 92% accuracy.