

Yarragonda Dhanush Kumar Reddy

+91 94415 72688 Kadiri, 515591, India

✉ dhanushkumarreddy0514@gmail.com in linkedin.com/in/dkry 📁 Dhanush - Portfolio

Education

University at Buffalo Buffalo, NY
M.S. in Computer Science
VIT University Vellore, India
B.Tech in Electronics and Communication Engineering

Work Experience

Software Developer – Siri Solutions Inc

- Designed and deployed backend modules using Python on AWS EC2.
- Automated deployments using shell scripts; reduced manual effort by 60%.
- Built REST APIs and integrated automated testing using Postman and Python.
- Contributed to CI/CD processes using Git and Docker.

Python Developer Intern – Sacro

- Developed automated Python pipelines for data processing (40% efficiency boost).
- Created unit tests using pytest and setup GitHub Actions for CI testing.
- Integrated runtime logging and error monitoring.

Projects

Emotion Recognition from Facial Expressions

- Trained CNN, ResNet, UNet, GoogleNet variants for emotion recognition.
- Applied data augmentation, weighted cross-entropy, Adam/SGD optimization.
- Built modular deep learning pipelines and achieved robust performance.

Deep Reinforcement Learning Agents

- Implemented DQN, DDQN, A2C, Actor-Critic algorithms in Python.
- Developed custom environments: Tic-Tac-Toe, Rock Paper Scissors, Switch Game.
- Achieved 92% accuracy through optimized replay strategies and network tuning.

Technical Skills

LANGUAGES:

- Python Shell Scripting
- SQL YAML
- HTML

DEVELOPER TOOLS:

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

TECHNOLOGIES / FRAMEWORKS:

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

Coursework

- Data Structures
- Algorithms
- Machine Learning
- Deep Learning
- Reinforcement Learning
- Data Intensive Computing

Leadership & Activities

Student Leader – Campus Dining & Shops

- Coordinated academic support and staff communication for 30+ members.
- Managed scheduling and reporting for internal student teams.
- Organized department events and improved documentation workflow.
- Acted as liaison between staff and students to streamline operations.