DHARAM THILAK REDDY

Buffalo, New York | thilakre@buffalo.edu | ThilakReddy | LinkedIn | (716) 256-7394

EDUCATION

Master of Science in Computer Science, University at Buffalo, The State University of New York

GPA: 3.5 Jan 2024*

Relevant Courses: Analysis of Algorithms, Pattern Recognition, Information Retrieval, Data Modelling & Query Languages, Reinforcement Learning, Data Intensive Computing, Human Computer Interaction

B.Tech. CSE, Jawaharlal Nehru Technological University, Hyderabad, India

GPA: 8.09/10 Aug 2021

Relevant Courses: Data Mining, Design and Analysis of Algorithms, Database Management Systems, Operating Systems, Computer Networks, Big Data Analytics, Cloud Computing, Web Technologies, Compiler Design

TECHNICAL SKILLS

Languages and Web Technologies: C/C++, C#, Java, Python, SQL, JavaScript, Kotlin, Swift, Dart, HTML, CSS, Bootstrap, React.js, Node.js, Rest API

Tools and Frameworks: Git, Visual Studio, Android Studio, Selenium, AWS, Django, Flask, Flutter, Postman

WORK EXPERIENCE

Software Developer, Hexagon Capability Center India, Hyderabad, India

Aug 2021 - Aug 2022

- + Optimized search engine for searching member systems in Intergraph application.
- → Built WPF pages for custom commands and is being accessed by more than 50k customers.
- → Migrated, deployed, and integrated 3D objects to be accessible in cross-platform devices.

Software Development Intern, Exposys Data Labs, Hyderabad, India

April 2021 - June 2021

- → Improved workflow by adding user-friendly and responsive design of a Video chat Web-App.
- ◆ Analyzed and created virtual backgrounds, log-in authentication, and screen recording features.
- → Improved efficiency when multiple people are joined in a group call.

Teaching Assistant, JNTU, Hyderabad, India

July 2020 – Oct 2020

- **→** Guided fellow Juniors in programming languages (Python, C++, and JavaScript)).
- ◆ Instructed HTML, CSS, JavaScript on web technologies workshop in a 16-week program.

ACADEMIC PROJECTS

Data Augmentation using DCGANs (Skills: Python, Machine Learning, CNN)

Dec 2020 - May 2021

- → Designed a simple model generating similar images using Deep Convolutional Generative Adversarial Networks helps in enhancement of datasets.
- + Consists mainly of two phases: Generator and Discriminator. The generator uses LeakyReLU, Batch Normalization 2D and Discriminator uses the Sigmoid function to get decision output.

Deep Reinforcement Algorithms (Skills: Python, Neural Networks, Reinforcement Learning)

Jan 2023 - May 2023

- → Deep Q-Networks (DQN), Double DQN (DDQN), Actor Critic, Advantage Actor Critic Algorithms were implemented to solve custom Multi-Agent environments such as Tic-Tac-Toe, Rock Paper Scissors and Switch Game.
- → Developed a custom model using modern techniques such as experience relay methods to boost performance of existing algorithm eventually achieving accuracy over 92%.

SonarScore: Advanced Music Trend Forecasting (Skills: Python, Flask, Regression, Clustering)

Sep 2022 - Dec 2022

- → Orchestrated application of various Machine Learning algorithms, encompassing regression, clustering, and classification techniques, to prognosticate song popularity.
- → Designed an interactive Web-App for users to play with custom input features such as Energy, Loudness, and Speechiness ultimately helping in predicting song's popularity gaining an accuracy over 88%.