PREETHAM REDDY GANGADI

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EDUCATION

University at Buffalo SUNY
Buffalo, New York
Master in Engineering Science Data Science
2024-2026
Relevant Coursework: *Data Science, Machine Learning, Deep Learning, Data Mining*

Neil Gogte Institute of Technology Hyderabad, Telangana
Bachelor of Technology, Artificial Intelligence and Machine Learning, **GPA: 3.44 / 4.0**
2020-2024

SKILLS AND INTERESTS

Technical Skills: Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, Java, C, SQL, Flutter, Machine Learning, Deep Learning, Neural Network
Tools & Platforms: AWS (SageMaker, Lambda, EC2), Azure ML, Docker, Kubernetes, Jupiter
Others: Git, Agile methodologies, Data Structures and Algorithms

ACADEMIC PROJECTS

Speech Emotion Recognition, *Deep Learning, Python*

- Attained significant success with top accuracy rates of 89.33% for the Parallel CNN-Transformer network and 85.67% for the Parallel CNN-BLSTM-Attention Network on a 10% hold-out test set from the RAVDESS dataset.
- Demonstrated superior performance compared to traditional models while maintaining computational efficiency, suggesting potential advancements through exploring advanced augmentations and network enhancements.

Driver's Drowsiness Detection System, Machine Learning

- The system detects drowsiness through real-time facial expression analysis and triggers alarm to alert the driver.
- It is built using Python, OpenCV, Keras, Tensorflow, Numpy and Pygame. Results show 98% precision and 99% recall

Music Recommendation System, *Machine Learning*

- Using machine learning to personalize music recommendations according to users' prediction.
- A recommendation system is what helps a streaming application in providing a good user experience. This project brings an enhancement to my previous project

Disease Prediction System, Machine Learning

- The aim of the project was predicting the disease or ailments by determining the specific symptoms.
- It is implemented using four different algorithms, including Decision Tree, Random Forest Tree, Gaussian Naive Bayes, which helped us attain an accuracy of 92%- 95%

LEADERSHIP EXPERIENCE

- I supported Vidyuth club members through technical guidance in career development, training, and productivity, as well as by addressing technical challenges. Additionally, I mentor students to connect with AI technologies, providing training in machine learning and deep learning algorithms.
- Successfully organized and mentored Hackathon events, attracting participants from diverse technical backgrounds and domains to solve different problems faced in society. Hack For a Cause (Organizer)| Hoya Hacks (Mentor)
- Initiated and managed influential social media campaigns, driving volunteer participation, donations, and raising critical awareness about social issues. Street Cause.