Lakshmi Aishwarya Malladi

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EDUCATION

University of Bridgeport – Master's in Artificial Intelligence   **Jan 2024 – May 2026**

Coursework – Computer vision, Python, Quantum Machine Learning, Deep Learning, Advanced Deep Learning, Autonomous Vehicles

Jawaharlal Nehru Technological University, Hyderabad, India   **Aug 2019 – July 2023**

Bachelor of Technology in Computer Science and Engineering

PUBLICATIONS

Malladi, L. A (2025, March). *Revolutionizing Wildfire Detection with Convolutional Neural Networks: A VGG16 Model Approach*. Paper presented at the 2025 ASEE Northeast Section Conference, University of Bridgeport, Bridgeport, CT**. https://peer.asee.org/54974**
DOI: 10.18260/1-2-119.1115-54974

TECHNOLOGIES

Tech Stack: Python, C | PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV | MySQL, Firebase, firestone | HTML, CSS, JavaScript
Tools: VS Code, Google Collab, PyCharm, GitHub | Deep Code, Hacker Rank, Replit

INTERNSHIP EXPERIENCE

IIT-G (Indian Institute of Technology) Machine Learning Intern   **May 2023 – July 2023**

Skin cancer detection model using CNN with the HAM10000 dataset. Achieved 99.9% accuracy in classification through model optimization and pre-processing techniques, Python, TensorFlow, Keras, and OpenCV for data augmentation and model training, presented findings to faculty, and received commendation for research quality.

Siliconvally4u, Remote Machine Learning & NLP Intern   **June 2022 – June 2023**

Worked on best practices in C programming with integration in Python-based workflows, developed NLP-based features using Python and Firebase for real-time data handling and deployment, Applied Natural Language Processing techniques to extract and analyze user input from cloud-hosted apps. Gained hands-on experience in full-stack development, combining Firebase backend with NLP pipelines.

ON CAMPUS EXPERIENCE

University of Bridgeport

Advancement Office Specialist
University of Bridgeport, Bridgeport, CT · May 2024 – May 2025

- Managed alumni data in Raiser's Edge, coordinated events, and supported donor relations and communications. Contributed to fundraising, alumni engagement, and special projects, enhancing advancement operations.

Front Desk Assistant
Residential Life Office, University of Bridgeport · May 2025 – Present

- First point of contact for students and visitors; managed housing ops via StarRez and assisted with check-ins, room assignments, and admin support.

PROJECTS

Wildfire Detection – Developed CNN using VGG16 on D-FIRE dataset with PyTorch and Adam optimizer, achieving 97.6% accuracy (NASA CT Space Grant).

Brain Tumor Detection – Led team to build deep CNN with morphological preprocessing on MRI data, reaching 99.02% accuracy using Python in Colab.

Breast Cancer Detection – Used ResNet-50V2 on RSNA mammography dataset to achieve 98.06% accuracy; focused on reducing false positives/negatives.

Movie Recommendation System – Built a Neural Collaborative Filtering model with PyTorch on the MovieLens dataset; optimized RMSE/MAE using deep learning.

EXTRACURRICULARS

President – Student Leadership Association, Secretary – Student Entrepreneurship Club (University of Bridgeport) | Student Ambassador – Silicon Valley 4 U

ACTIVITIES

Technical & Cultural Coordinator, Event Host, IEEE Member, Active Club Participant | Passionate about baking & cooking