TEJAS M BHARADWAJ

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EDUCATION

Jyothy Institute of Technology — Bangalore, India
Bachelor of Engineering in Computer Science | **CGPA**: 8 — May 2025

Deeksha PU College — Bangalore, India
Second Year Pre-University: PCMC | **Percentage**: 70 — June 2021

TECHNICAL SKILLS

Programming Languages: Python, HTML, CSS, Reactjs
Technologies: Visual Studio Code, Google Colab
Operating systems: Windows, Mac
Live Skills: Leadership, Teamwork, Communication, Adaptability

PROFESSIONAL EXPERIENCE

Centre for Incubation, Innovation, Research and Consultancy (CIIRC) — Bengaluru, India
Research Intern — Sep – Jan 2025

- Conducted remote sensing analysis to track seasonal variations in urbanization and water bodies using satellite imagery.
- Evaluated portability parameters and correlated findings with ground data for validation.
- Applied geospatial techniques to assess environmental changes and their potential impacts.

TestAIng — Bangalore, India
Machine Learning Intern — Nov - Dec 2024

- Developed a regression model on sports financial datasets, performed bias detection and mitigation using the AIF360 library, and implemented datasets through a classification pipeline in Python.

RESEARCH PUBLICATIONS

A Smart, Patient-Centric Healthcare Portal for Brain Disorder Prediction Using MRI/CT Scans and Deep Learning Models

- Developed a smart healthcare portal using deep learning to detect brain disorders such as Alzheimer's, stroke, and tumors from MRI/CT scans. The system integrates MobileNetV2 for real-time diagnosis and InceptionV3 for high-precision detection. It features a Flask-based web interface enabling patient registration, scan upload, and result visualization.

FusionNet - RS: A Deep Feature Fusion Model for Remote Sensing Image Classification on PatternNet

- Acknowledged for contributing to a deep learning research project involving a hybrid CNN model (MobileNet + DenseNet121) for classifying remote sensing images. Supported the development and evaluation of the FusionNet-RS model, which achieved 95.98% accuracy on the PatternNet dataset using five-fold cross-validation. Assisted in optimizing preprocessing and feature fusion techniques for robust and efficient land-use classification.

Land Use Classification using Ensemble Hybrid Model: A Study on the UC Merced Dataset

- Developed a deep learning-based hybrid model combining MobileNet and DenseNet121 for high-accuracy land-use classification using aerial imagery. Implemented feature fusion and linear SVM with SMOTE balancing, achieving 96.57% accuracy on the UC Merced dataset. Validated model performance with stratified 5-fold cross-validation, optimizing for both accuracy and computational efficiency.

ACADEMIC PROJECTS / PERSONAL PROJECTS

Detection of Brain Diseases Using Deep Learning Models | LINK

- **Designed** and **implemented** a deep learning-based system to detect multiple brain diseases by leveraging two pre-trained models for comparative analysis. Utilized Python for model training and processing of MRI/CT images. Designed a user-friendly web interface using HTML and CSS, and integrated an interactive chatbot to enhance user engagement.

Unauthorized Construction Detection System | LINK

- **Developed** a web app using Streamlit to detect unauthorized construction by comparing satellite images with the help of SSIM from scikit-image. The app identifies structural changes and highlights them using OpenCV. It sends real-time alerts with image evidence through Email and Telegram using SMTP and Telegram Bot APIs.

Placement Assistance Platform | LINK

- Implemented using HTML, CSS and PHP to track placement activities and workshops. Facilitates tracking of placement activities, workshops, and other related events.

OTHER ACTIVITIES

- Participated in a national-level hackathon organized by NSS in Mysore.
- Participated in an intercollegiate-level gameathon.
- Actively participated in diverse cultural events, showcasing creativity and teamwork.
- I have represented my college as a cricket player in university-level tournaments, showcasing leadership, teamwork, and sportsmanship
- Volunteered for college-level events such as hackathons, gameathons, & other events.