Devapatla Bhargavi

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EDUCATION

Manav Rachna University Faridabad, India
Bachelor of Technology, Computer Science and Technology with specialization in Artificial Intelligence and Machine Learning
GPA: 8.7/10 2022-2026
Languages:
English, Telugu, Hindi, German
Relevant Coursework: Python Programming, Data Structures and Algorithms, Java Programming, Supervised Learning, Unsupervised Learning& Neural Networks, SQL.

ACADEMIC PROJECTS

Prognosis of Anomaly Detection in Tiny Life using AI based Fetal Segmentation Approach

- Medical imaging for prenatal health monitoring has advanced significantly in recent years, especially with deep-learning approaches. These developments make it possible to automate the analysis and segmentation of fetal features using MRI and ultrasound (US) scans.
- The foetus is segmented by its structure and the foetus's head circumference (HC) can be detected by the segmentation process using methods like u-net and segnet with 96% accuracy.

Chatbot on music recommendation system using facial expressions

- Developed a chatbot-based music recommendation system leveraging facial expression recognition using CNN.
- Integrated real-time emotion detection via webcam using MediaPipe and OpenCV for personalized song suggestions and built an interactive user interface using Streamlit to enhance user engagement and recommendation accuracy.

Harnessing deep learning techniques for early prognosis of oral cancer xdetection

- Developed an ensemble CNN classifier combining EfficientNet B3 and ResNet50 via transfer learning, with selective layer freezing and dropout for overfitting mitigation.
- Implemented aggressive image augmentation strategies to enhance model robustness across varied lesion appearances.
- Achieved ~97 % classification accuracy, improved sensitivity, and specificity in identifying benign vs malignant lesions, ensemble setup outperformed individual model baselines.

AWARDS AND ACHIEVEMENTS

- Received first place in the code Sangam hackathon which was held at SGT University, Gurgaon with a cash prize of fifteen thousand rupees.
- Show cased poster in Health innovation Tech.
- Letter of appreciation for SDG's project.
- 3rd Prize Winner, Altair Data Science Contest with cash prize of 2500/-.

PUBLICATIONS

- Prognosis of Anomaly Detection in Tiny Life using AI based Fetal Segmentation Approach. (Link)
- Alzheimer's Disease Detection from Brain MRI Scans Using Convolutional Neural Networks. (Link)
- Harnessing deep-learning techniques for early prognosis of oral cancer detection. (Link)
- Classifying Music Genre and Recommending songs using various ML Algorithms. (Link)

INTERNSHIP

Python Programming Intern – Motioncut (July – August 2024)
- Built mini-projects like Expense Tracker, Quiz Game, and Word Counter using Python.

Research Intern – MRImpact (Feb – April 2025)
- Worked on machine learning projects involving model training and evaluation.

Project Intern – Selenium Automation (May – July 2025)
- Automated web tasks using Selenium and developed reusable test scripts.

SKILLS AND INTERESTS

Coding languages: Python, C, Java, frontend, SQL
Machine Learning Frameworks: TensorFlow, Keras, PyTorch