



Melanie Rodrigues

BE-4th Year

✉ melanierodrigues.mcr11@gmail.com

☎ 7022589668

📍 udupi, India

EDUCATION

Computer Science Engineering-AI & ML Sahyadri College of Engineering and Management

Mangalore, Karnataka

CSE(AI/ML)

– CGPA: 8.19

12th Board

Viveka PU College

Kota, Karnataka

PCMB

– Percentage: 89.17%

10th Board

SMS English Medium School(CBSE)

Brahmavar, Karnataka

Courses

– Percentage: 83.8%

WORK EXPERIENCE

Member

New Age Incubation Network(Nain)

05/2023 - 10/2023

Sahyadri, Mangalore

Achievements/Tasks

- Participated in a Government funded "SAFEON" project, focused on enhancing child safety in daycare centers.
- Aim to develop a child location tracking system that utilizes technology to monitor child whereabouts and provide real-time updates to parents via an Android app.

Intern

Paypal/ICT Academy

02/2024 - Present

Mangalore

Achievements/Tasks

- Completed a comprehensive course on AWS services provided by PayPal, gaining proficiency in deploying, managing, and optimizing cloud-based solutions.
- Strengthened my ability to work well with others through training, making it easier for me to communicate clearly and collaborate effectively with different kinds of people.

SKILLS

Python

Basics of GENAI

NLP

AWS

opencv

Deep Learning

PERSONAL PROJECTS

1. Music Recommendation System using OpenCV and Machine Learning

- Created a music recommendation system based on user preferences and facial expressions.
- Used OpenCV for facial expression recognition and machine learning algorithms for music recommendations.
- Developed the system using Python and relevant libraries like scikit-learn and TensorFlow.
- Made use of platforms like Google colab, VS code to build the project.

2. Music Genre Classification

- The project employs machine learning algorithm such as Convolutional Neural Networks (CNNs) to train classification models on the extracted MFCC features.
- It learns to distinguish between different music genres based on patterns inherent in the MFCC representations, enabling accurate genre classification.

3. Pattern Matching And Detection of Respiratory Diseases

- The project classifies various respiratory diseases by using lung sounds as the dataset.
- The techniques employed in the pre processing steps are calculating sample rates with respect to each audio sample, generating MFCC's, creating spectrograms etc.
- The model used is the combination of CNN -LSTM that provides better results than other approaches.

4. Crime Management System using DBMS

- Collaborated on a team project to create a crime management system with entities like criminal records, case records, police records and court records. Designed a database schema for investigation details.
- Developed SQL queries and implemented them using MySQL.

5. Healthcare Application using Android Studio

- Developed an Android application for healthcare management. Implemented features for appointment scheduling for lab tests, doctor consultation, buying healthcare essentials and reading healthcare related articles.
- Utilized Android Studio, Java, and SQLite for database management.