

Minutes of Project meetings:

Meeting#1

Date: 11/03/2025

Time: 10 pm

Venue: Online (Google Meet)

Attendees: B23EE1008, B23EE1072, B23EE1065, B23CS1028,B23EE1062,B23CM1031

Discussion points:

Broad project idea, who will do what

Action item:

- B23EE1072,B23CM1031,B23EE1062 will create the presentation of the project.
- B23EE1065,B23EE1008,B23CS1028,B23EE1072 will decide each of the ML models to be used and feature Extraction of Dataset.
- B23EE1065,B23EE1008 will work on the Project Report.
- B23EE1008,B23EE1065 will work on Web Demo, Project Page.

Written by: B23CS1028

Meeting#2

Date: 19/03/2025

Time: 9 pm

Venue: Hostel Premises

Attendees: B23EE1008, B23EE1072, B23EE1065, B23CS1028,B23EE1062,B23CM1031

Discussion points:

Discussed about the models to be used, how the data should be preprocessed and useful features to be extracted for new unknown audio files.

Action item:

- B23EE1065,B23EE1072,B23EE1008 will work on data preprocessing, analysis of columns in pre extracted data.
- B23EE1062,B23CM1031,B23CS1028 started working on the project presentation

Written by: B23EE1065

Meeting#3

Date: 25/03/2025

Time: 9 pm

Venue: Hostel Premises

Attendees: B23EE1008, B23EE1072, B23EE1065, B23CS1028,B23EE1062,B23CM1031

Discussion points:

- Analysed the libraries and discussed how to implement models from scratch without using pre-available libraries.
- Discussed about Project Demo and project page.
- Researched about Google Cloud and features in it.

Action item:

- B23EE1072, B23EE1062 started working on Random Forest and KNN model.
- B23EE1065, B23CS1028 started working on Gaussian Mixture model with Expectation maximization.
- B23EE1008, B23CM1031 started working on SVM model

Written by: B23CS1028

Meeting#4

Date: 02/04/2025

Time: 9 pm

Venue: Hostel Premises

Attendees: B23EE1008, B23EE1072, B23EE1065, B23CS1028,B23EE1062,B23CM1031

Discussion Points:

- Everyone updated their progress on model implementations
- Focused on improving model accuracy
- Combined use of libraries and custom implementations to enhance performance

Action Item:

- Continue improving accuracy and validating both library-based and scratch implementations

Written by: B23CS1028

Meeting#5

Date: 05/04/2025

Time: 9 pm

Venue: Hostel Premises

Attendees: B23EE1008, B23EE1072, B23EE1065, B23CS1028, B23EE1062, B23CM1031

Discussion Points:

- Tried deploying the project on Google Cloud
- Finalized Random Forest, KNN, SVM and ANN models
- Continued working on the web demo and feature extraction from new/unknown audio files

Action Items:

- B23EE1072, B23EE1062 finalized Random Forest and KNN models and started working on project page, latex report.
- B23EE1065, B23CS1028 finalized the Artificial Neural Network (ANN) model and started work on latex report and presentation for spotlight video.
- B23EE1008, B23CM1031 worked on the web demo and feature extraction for unknown audio files, and started work on spotlight video.

Written by: B23CS1028

Meeting#6

Date: 09/04/2025

Time: 9 pm

Venue: Hostel Premises

Attendees: B23EE1008, B23EE1072, B23EE1065, B23CS1028,B23EE1062,B23CM1031

Discussion Points:

- Reviewed final implementations of all models: Random Forest, KNN, SVM, ANN
- Verified performance results and confusion matrices
- Final checks on LaTeX report, project page, web demo, and spotlight video
- Planned submission and dry run for final project presentation

Action Items:

- B23EE1072, B23EE1062 finalizing the project page and cross-checked the LaTeX report
- B23EE1065, B23CS1028 made final edits to the spotlight video and presentation
- B23EE1008, B23CM1031 testing and deployment of the web demo

Written by: B23CS1028
