

PRODUCT BACKLOG

17/11/2021

→ Topic Selection

- Browsing topics based on Machine Learning.

22/11/21

→ Searching Project topic

- Searching IEEE paper and reading the objectives of each.
- checking whether enough datasets are available or not.
- studying the functionalities and system requirements
- examining the relevance of each topic.

24/11/21

→ Topic Selection

- Project Topic "Speech Emotion Recognition"
- Dataset:

- Downloaded dataset from kaggle.

- RAVDESS (Speech audio-only files)

29/11/21

→ Understanding the project

- preparing synopsis by understanding the objectives.
- visiting different site to know more about the project.
- finding the appropriate algorithm needed for the project.

6/12/21

→ Submission of project synopsis to ^{project} guide.

→ Approval of topic on 7/12/21.

8/12/21

→ Modules / Sub Task identification

- the sub tasks in the project are identified:
 - data collection
 - feature extraction
 - Classification & Training

13/12/21

→ Learning about the algorithms used.

- learning about CNN, SVM.

15/12/21

→ Understanding how to analyze the audio files

→ Extracting features from audio files

20/12/21

→ Identifying the packages and libraries

- Keras API, LibROSA (python library for analyzing audio), numpy, sklearn, pyaudio.

22/12/21

→ Understanding and learning about pre-emphasis, framing, windowing.

→ Use of Fourier-Transform Spectrum

3/1/22

- Understanding the design tools needed
- Installing anaconda, python
- Study how to use jupyter notebook.

5/1/22

- Training the model.

DATABASE & UI DESIGN

20/12/21

→ Analysing pages needed for UI Design (eg: home page)

22/12/2021

→ Designing of the user input

→ Outlining how the output should be displayed

5/1/22

→ Designing home page with proper HTML template & CSS

TESTING and VALIDATION

15/12/21

- Training & testing dataset
- Testing data used for training the model
- Dataset include audio files with different emotions like happy, sad, calm, neutral, angry etc.

DETAILS of VERSIONS

20/12/21

→ Creation of a new git repository

5/1/22

→ pushing the dataset folder.

→ maintaining backups of the work in progress.