ANNEXURE - A

**HMR INSTITUTE OF TECHNOLOGY & MANAGEMENT**

**Hamidpur, Delhi-110036**

**(An ISO 9001: 2008 certified, AICTE approved & GGSIP University affiliated institute)**

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**Department of Computer Science Engineering**

**Synopsis of Minor Project**

**Date: 15-09-23**

**Minor Project Title:** **Speech Emotion Recognition**

**Name of Supervisor(s):**

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| **Program**: - **B.Tech(CSE/IT)** | | **Year/Semester: - 7th Semester** | |
| **S. No.** | **Enrolment No.** | **Name** | **Signature** |
| 1 | 02613302720 | Harsh Gupta |  |
| 2 | 07813302720 | Sonika Parashar |  |
| 3 | 03213302720 | Jay Kumar Jha |  |

**Minor Project Summary**: In Speech Emotion Recognition, we are going to analyze and classify various audio files to a corresponding class and visualize the frequency of the sounds through a plot. We have used the dataset of 200 target words used by two actresses of different aged 24 and 64 years respectively. Recordings were made of the set portraying each of seven emotions (anger, disgust, fear, happiness, pleasant surprise, sadness, and neutral). There are 2800 data points (audio files) in total.

**Objectives:** It can help us to learn to build accurate models that can detect and classify emotions in spoken words, opening doors to applications in psychology, customer service, and more. It can also help to enhance your skills in audio processing, machine learning, and dive into the fascinating world of deep learning.

**Research Paper Topic:** Speech Emotion Recognition

**Base Paper Link:** file:///C:/Users/DELL/Downloads/1-s2.0-S1877050920318512-main.pdf

**Resource Requirement:**

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4. Gilke, M. Kachare, P. Kothalikar, R., Rodrigues, V. P. And Pednekar, M.,"MFCC-based Vocal Emotion Recognition Using

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12. Zamil, Adib Ashfaq A., et al. "Emotion Detection from Speech Signals using Voting Mechanism on Classified Frames." 2019 International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST). IEEE, 2019.

13. L.X.Hùng : Détection des émotions dans des énoncés audio multilingues. Institut polytechnique de Grenoble, 2009.

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26. Avots, E., Sapiński, T., Bachmann, M. et al. “Audiovisual emotion recognition in wild”. Machine Vision and Applications (2018)

27. L. Kerkeni, Y. Serrestou, M. Mbarki, K. Raoof, M. Ali Mahjoub and C. Cleder. “Automatic Speech Emotion Recognition Using Machine Learning”. Social Media and Machine Learning. (2019).

**Schedule of Minor Project Work Along with Research Paper:**

# September

* October
* November
* December

**Signature of Student Signature of Supervisor(s)**

**Signature of Minor Project Co-ordinator:**

**Co-ordinator Name:**

**Approval by Project Committee**

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| **Member** | **Signature** | **Remark (Approved/Not Approved)** |
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