**Capstone Project Submission**

|  |
| --- |
| **Team Member’s Name, Email and Contribution:** |
| **1. RITIKA RAWAT**  Email:-[ritikarawat220@gmail.com](mailto:ritikarawat220@gmail.com)  **Contribution:-**  1. Find FER Dataset from Kaggle  2. Deepface framework  3. Transfer Learning - ResNet50  4. Customized CNN  5. Project setup on local machine  6. Develop webapp with streamlit and HTML  7. Test app for real time face emotion detection on localhost  8. Deployment on Heroku and streamlit share  9. documentation |
|  |
| GitHub Link:-  https://github.com/ritikarawat220/CAPSTONE-PROJECT-FACE-EMOTION-RECOGNITION.git |
| **Summary**  The Indian education landscape has been undergoing rapid changes for the past 10 years owing to the advancement of web-based learning services, specifically, eLearning platforms.  Digital classrooms are conducted via a video telephony software program (ex-Zoom) where it’s not possible to see all students and access the mood. Because of this drawback, students are not focusing on content due to a lack of surveillance.  Digital platforms have limitations in terms of physical surveillance, but it comes with the power of data and machines which can work for you. Its data can be analyzed using deep learning algorithms which not only solves the surveillance issue but also removes the human bias from the system.  We will solve the above-mentioned challenge by applying deep learning algorithms to live video data. The solution to this problem is by recognizing facial emotions.  This is a few shots learning live face emotion detection systems. The model should be able to real-time identify the emotions of students in a live class.  After successfully running an application on localhost, we deploy the model on streamlit share and Heroku. |