Week 2 task:

Literature Survey:

Analysing IEEE Papers:

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| Sr. No | Title of Paper | Name of  Authors | Published Year | Remarks |
| 1 | Stress Detection with Machine Learning and Deep Learning using Multimodal Physiological Data | Pramod Bobade,  Vani M. | 2020 | **Dataset used** – WESAD dataset. **Algos** – K-Nearest Neighbour, Linear Discriminant Analysis, Random Forest, Decision Tree, AdaBoost and Kernel Support Vector Machine, ANN. **Preprocessing methods** – Principal Component Ananlysis(PCA), Quartile Transformer, Standard scalar preprocessing. **Python Library used** – Scikit, keras.  **Model validation** – LOSO(Leave-One-Subject-Out) |
| 2 | Automatic Stress Detection Using Wearable Sensors and Machine Learning: A Review | Shruti Gedam,  Sanchita Paul | 2020 | **Useful attributes for detection of stress** – Heart rate, heart rate variability and skin conductance.  **Algos**- SVM, random forest,  KNN, Logistic Regression Model, Fuzzy Logic Algorithm, minimum Redundancy Maximum Relevance (mRMR) selection algorithm, Quadratic discriminant analysis, cross-model auto-encoder.  **Accuracy detection of the models** can be done by F1\_score of scikit learn library. |
| 3 | Machine Learning and IoT for Prediction and Detection of Stress | Mr.Purnendu Shekhar Pandey | 2017 | **Algos**- SVM, Logistic Regression, VF-15(with and without weights), Naïve Bayes.  **Methodology** - Data of heartbeat is collected using IoT device and that data is used for real time analysis using DigitalOcean server to keep track of the data and different machine learning algorithms to apply on the dataset. |
| 4 | Stress detection using deep neural networks | Russell Li and Zhandong Liu | 2020 | **Methods used is** - a 1-dimensional (1D) convolutional neural network, a multilayer perceptron neural network.  **Data derived from**-  ECG,EEG, etc.  Advantage of using deep learning than machine learning can be derived from the paper. |

