Week 2: Stress Detection

Literature Survey:

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| Sr. No. | Title of Paper | Name of Authors | Published Years | Remarks |
| 1 | Stress Detection with Machine Learning and Deep Learning using Multimodal Physiological Data | Pramod Bobade, Vani M | 2020 | ML Techniques: K-Nearest Neighbour, LDA, Random Forest, Decision Tree,etc. Accuracies: 93.20% (ML Techniques), 95.21%(Deep Learning) |
| 2 | A Decision Tree Optimised SVM Model for Stress Detection using Biosignals | Alana Paul Cruz, Aravind Pradeep, Kavali Riya Sivasankar and Krishnaveni K.S | 2020 | SVM using Decision Trees, ECG as bio signal. Accuracies: Cubic SVM with Gaussian- 92.6%, Tree Optimised SVM- 96.3% |
| 3 | Automatic Stress Detection Using Wearable Sensors and Machine Learning: A Review | Shruti Gedam, Sanchita Paul | 2020 | Stress detection using Electrocardiogram(ECG)(84.4%), Stress detection using Electroencephalography(EEG)(74.43%), Stress detection using wearable Photoplethysmography (PPG) device(94.33%) |
| 4 | Mental Stress Detection using Machine Learning Algorithms | Aishwarya Bannore, Tejashree Gore, Apoorva Raut, Kiran Talele | 2021 | Appearance based facial expression recognition system using Convolutional Neural Network (CNN), Local Binary Pattern to extract appearance features. Experimented with Indian and Cohn-Kanade database |
| 5 | Detection of Stress in IT Employees using Machine Learning Technique | Suresh Kanaparthi, Surekha P, Lakshmi Bellamkonda, Bhavya Kadiam, Belluah Mungara | 2022 | Machine Learning and Visual Processing Techniques used including live detecting and personal counselling |