STRESS DETECTION USING ML

Prerequisites :

- Programming Language(PythonFundamentals,Pandas,Numpys)
- Statistics
- Probability
- Linear Algebra
- Calculus

Project Description :

Stress,tension, and misery are undermining the psychological well-being of individuals.Each individual has a justification behind having an unpleasant life. Individuals frequently discuss their thoughts via web-based entertainment stages like on Instagram as posts and stories, and on Reddit through requesting ideas about their life on Subreddits.In the beyond couple of years, many substance makers have approached to make content to assist individuals with their psychological wellness. Numerous associations can utilize pressure discovery to find which virtual entertainment clients are focused on to rapidly help them. Stress discovery is a difficult undertaking, as there are so many words that can be utilized by individuals on their posts that can show regardless of whether an individual is having mental pressure.

The dataset I'm utilizing for this errand contains information presented on subreddits related to emotional wellness. This dataset contains different emotional well-being issues shared by individuals about their life.

People often share their feelings on social media platforms. Many organizations can use stress detection to find which social media users are stressed to help them quickly.

Literature Survey :

S.NO	Title of Paper	Name of Author	Published Year	Remarks
1	Machine Learning and IoT for prediction and detection of stress	Mr. Purnendu Shekhar Pandey	2017	**Alg** : VF-15,Naive Bayes **Methodology**: Heart rate,skin response,pulse sensor
2	Stress detection using deep neural network	Zhandong Liu & Russell Li	2020	**Methodology:** 1-dimensional (1D) convolutional neural network and a multilayer perceptron neural network.
3	Stress Detection with Machine Learning and Deep Learning using Multimodal Physiological Data	Pramod Bombade	2020	**Methodology**: Preprocessing and Classification Algorithms,Dataset and Features Extraction
4.	A Decision Tree Optimised SVM Model for Stress Detection using Biosignals	Alana Paul Cruz, Aravind Pradeep, Kavali Riya Sivasankar and Krishnaveni K.S	2020	**Methodology:** ECG,SVM using Decision Trees
5.	Automatic Stress Detection Using Wearable Sensors and Machine	Shruthi Gedam	2020	**Algorithms:** Support vector machine,

	Learning			Random forest and K-Nearest Neighbor are the most effective classification algorithms **Methodology:** Using EEG,ECG, Microblogs Using PPG devices,using Wearable Sensors and IOT Devices

(Remarks : It will include all the points which I understood from the IEEE papers… such as methodology,algorithms,advantages,Disadvantages,Applications etc..)