**Introduction**

With the progress of society and the development of science and technology, people under the great pressure at the same time. We realized that there are much people suffer from Depression or Bipolar Disorder in our daily life, even elementary students. These mental illnesses are not only caused by personal or society reason, but also depend on the nature environment [1]. Just like humid weather will make people feel depress than sunny. We hoped that we can create a model which can predict the stress, by this way, people can do something relaxing at the beginning to make these stress don’t grow larger and larger.

In this project we proposed a tool to predict the stress level by temperature and humidity.

Our application and contribution is that these mental illnesses somehow caused by the nature environment, by this tool, it may help people to predict the stress, and it can do some restful activities to release these stresses than suffer large stresses at the end and caused the mental illnesses. The point above is not only for the person without mental illness but also the person who was suffered by mental illnesses before and get well now. Especially who are suffered by mental illnesses before, it’s easy for them to get mental illnesses again if they don’t have great control. It’s important for them to find out if there is stress in their mind or not, and this tool may help.

**LITERATURE REVIEW**

Our resource is come from these two papers. “A Smart Sensor in the IoMT (Internet of Medical Things) for Stress Level Detection” and “Stress-Lysis: A DNN-integrated edge device for stress level detection in the IoMT”.

In the first paper, it’s talking about a device created as a band which has sensors in it to detect temperature, heart rate, accelerometer...etc. These data will be the input of the Deep Learning or Deep Neural Networks (DNN) models, and the output will be the stress level.

The next paper they presented in 2019, “Stress-Lysis: A DNN-integrated edge device for stress level detection in the IoMT”[3] is talking about their novel contribution, like using Mamdani fuzzy logic for accurate stress detection, combines not only one data to do the prediction, quickly to detect stress level is presented and a novel IoMT-enabled system for stress analysis at the edge and not at the cloud is proposed, thus advancing the state-of-the- art in the IoMT.

We’ve also search different algorithms to have some comparison and discuss if they are suitable.