



**INFORMATICS  
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## **Emotion Recognition System For Psychiatrist Hospitals.**

Key Words – Machine Learning, Adversarial Machine Learning

A Project Proposal by

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## **ABSTRACT**

A Psychiatrist Hospital is where the psychological patients are able to get the proper treatments for their mental disorders and get recovered, with the aid of experienced Psychiatrists and nurses. Their primary responsibility is to handle the patients with mental disorders by diagnosing the patients' disorders through their emotions.

This diagnosing process may be broken down into four major parts. First, the Psychiatrists are used to identify the key human emotions of the patient who is suffering from the mental disorder. There are numerous ways to do this identification but it may varied from one Psychiatrist to another. Widely used methods for this process are, having conversation with the patient, checking blood pressure, and having a deep examination in their facial expressions. Second, the Psychiatrists then analyze the emotions they have identified. Third, the Psychiatrists try to diagnose the disorder through the analysis of the emotions. Fourth and the last, they predict relevant medical treatments for the patients and examine whether their recovery process is going right. This is an explanation of how a Psychiatrist handles a psychological patient.

This study investigates the role of the Psychiatrist during the emotion identification process and how this first step affects the whole diagnose procedure as there is a risk, if they unable to identify the correct emotions. Further, this is a challenging task for both experienced and less-experienced Psychiatrists for the whole procedure depends on this emotional recognition and these are some of the topics we discussed.

As previously explained, this study examines the role of Psychiatrists in emotion recognition of psychological patients. Thus this investigation came across with some explanations. There is more than 50% probability to misdiagnose most of the mental disorders including the dangerous disorders such as Bipolar disorder, Depression and Anxiety disorder. This happens mainly due to the inability of recognizing the emotions of the patient correctly. Another explanation is that this will become more dangerous when it comes to a less-experienced Psychiatrist. In this case, patients have to put their lives at a high risk.

According to the research discussed above, the Psychiatrist's flaws in emotional recognition are causing patients to jeopardy their lives day by day. As previously stated, the fundamental issue in