DETECTION, PREDICTION, AND ANALYSIS OF MENTAL WELL-BEING

DOMAIN : MACHINE LEARNING

Sri Venkateswara College of Engineering

SVCE IQAC — Consciousness for Quality

ABSTRACT

- Mental health is a veritable topic of concern in most parts of the world.
- Our software is proposed to help build understanding of the user's mental health, and prevent mishaps.
- Our software conducts a survey and the collected information is used as test dataset in our machine learning model for prediction.

INTRODUCTION
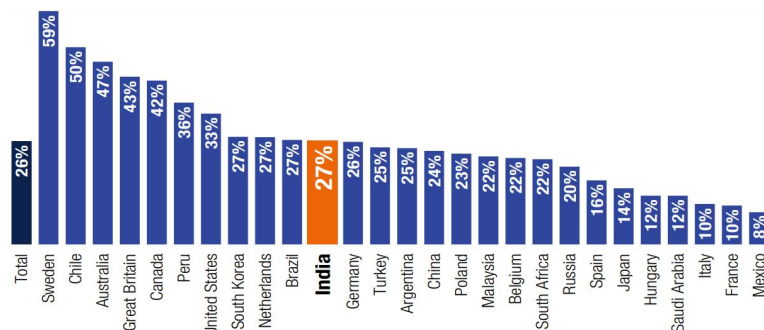
Statistics of people with Mental Health in different countries

EXISTING WORK

- Existing research had shown the implementation using KNN and SVM which shows lower accuracy rates.

PROPOSED WORK

- We use Random Forests and the test data is in the form of a textual survey form
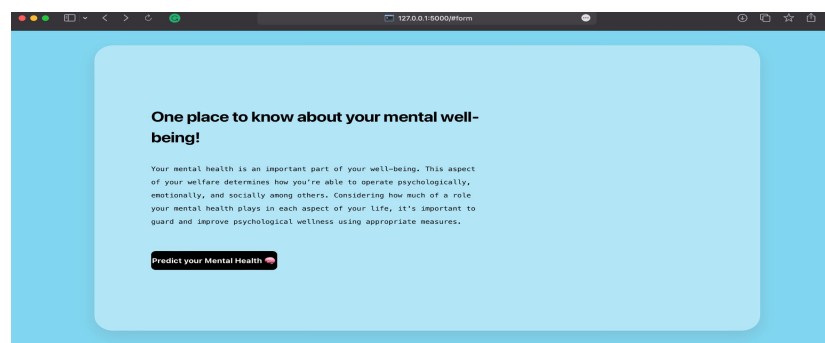

SOFTWARE REQUIREMENTS

- Microsoft Windows 7 or later, Mac OS Montenary
- Anaconda, Microsoft Visual Studio Code, Pandas, NumPy, Scikit-Learn, Streamlit.

MODULE DESCRIPTION

MODULE – I: Data Collection & Loading

MODULE – II: Data cleaning and encoding

MODULE – III: Model Construction Phase

MODULE – IV: Data Entry

MODULE – V: Predictions

USER INTERFACE

OUTPUT

INFERENCES & OUTCOMES

- The **end goal** of our software is to create awareness for mentally unwell people before they reach vulnerability.

- Mainly useful in Healthcare Sector.

CONCLUSION AND FUTURE WORK

- The software can maintain a mental health tracking technique which monitors the scores for a period of time incorporating the use of cloud technology for data storage.
- Visualizations can be provided to develop each skill set of individuals.
- Based on the results, the individuals will be provided with helpline guidance.
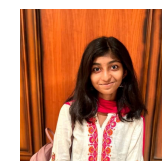
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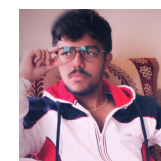
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