Postpartum Depression

Table of Contents

- Team Introduction
- Introduction
- Project Flow
- Visualization
- Web App
- Benefits

Team Introduction

Ikram Patel

Sujata Biswas

Introduction

- In the journey of human existence, the significance of health, both physical and mental, is incredibly important.
- Along with physical well-being, the complexities of mental health weave a crucial thread, shaping individuals' perceptions, emotions, and overall quality of life.
- Within this complex framework, Postpartum Depression (PPD) emerges as a touching reminder of the interdependence between physical and mental health, particularly during the vulnerable period following childbirth.
- As per the studies by PRAMS (Pregnancy Risk Assessment Monitoring System), around 10-20% of women commit suicide or experience severe depression, sometimes leading to suicidal thoughts.
- Despite its prevalence, postpartum depression is often ignored, perpetuating needless suffering among mothers and families.
- Our team endeavors to shed light on this critical issue through visualization techniques and develop predictive models to identify women who are at risk of experiencing suicidal ideation or attempting suicide.

Project Flow

IDENTIFYING THE PROBLEM

DATA ACQUISITION AND SELECTION

CDC

kaggle

NIH National Library of Medicine
National Center for Biotechnology Information

PRE-PROCESSING & TRANSFORMING DATA

python™

pandas

jupyter

VISUALIZATION AND ANALYSIS

+ a b | e a u

X

MODEL DEVELOPMENT AND PREDICTION

scikit learn

Joblib

WEB APPLICATION

Flask
web development, one drop at a time

HTML

CSS

JS

Benefits

Early detection and intervention to prevent suicide

Implementation of precautionary measures recommended by healthcare professionals

Enhancement of mental well-being

Facilitation of patient experiences sharing to offer support and insights to others

Thank You!