Depression Analysis based web application



More Common than You Think



lin5adults

experienced a mental health concern in the past year.

In general, having a high level of mental wellness is important on any level (individual or at a workplace) as it directly affects one's emotional state, social perceptions and work productivity.

However, survey results and other media outlets have suggested that many working individuals potentially in need of mental healthcare are not receiving or even seeking appropriate treatments.

How Do I Maintain Positive Mental Health?

Getting your mental health checked

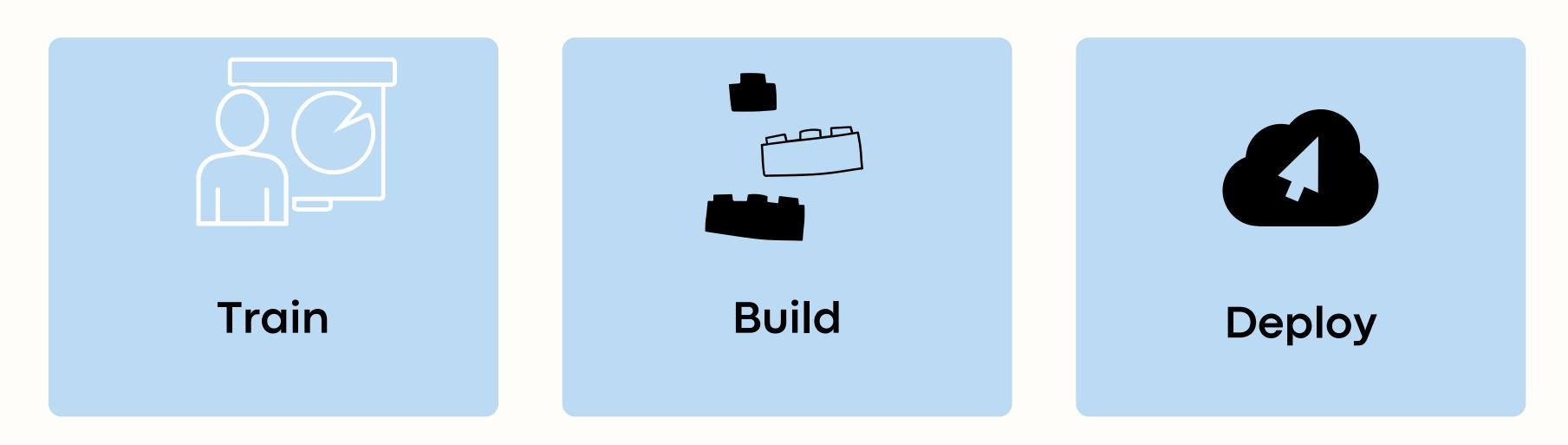
Taking necessary actions in order to develop/maintain good mental health

Project Goals



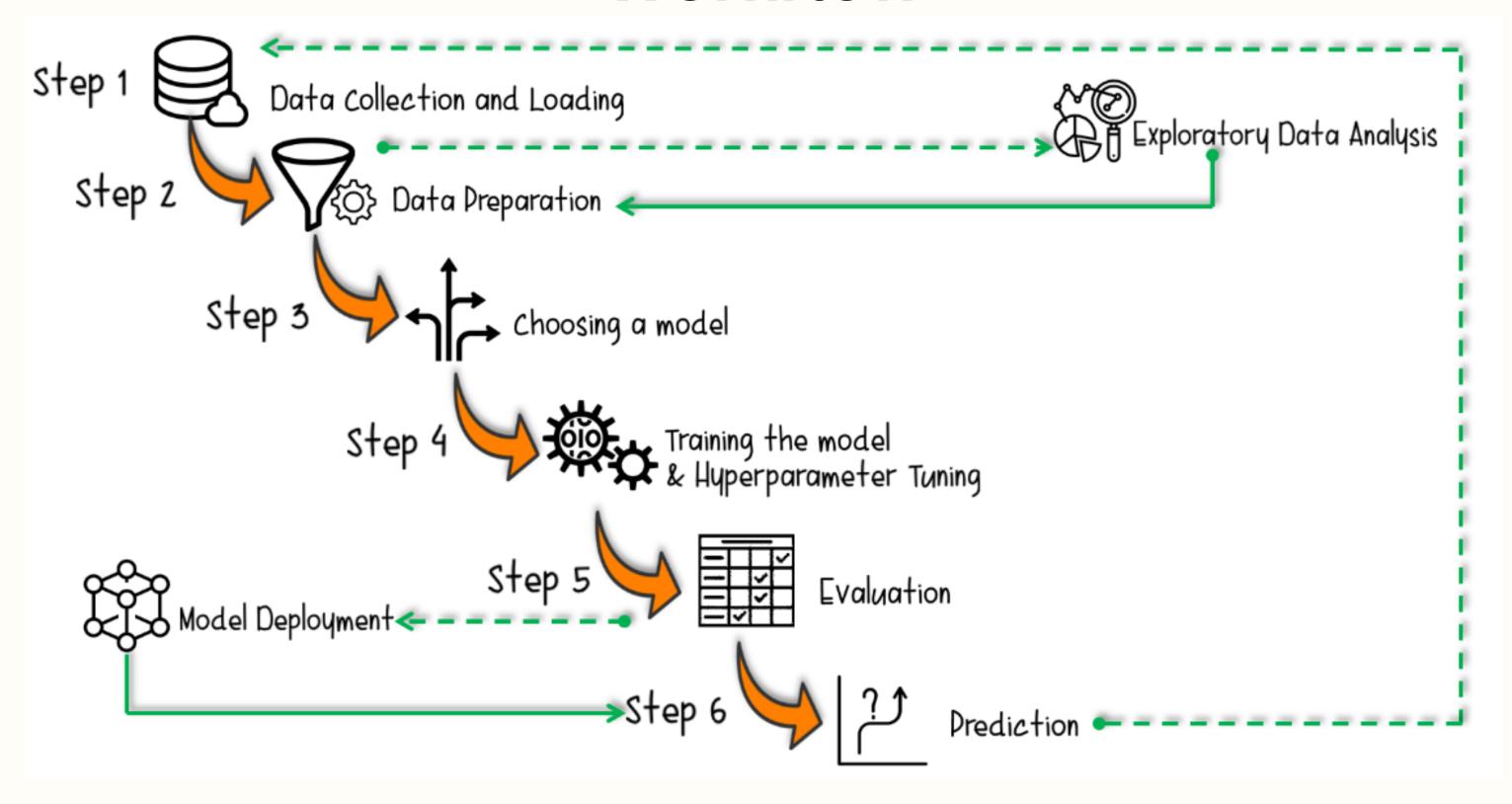
- To identify significant factors which influences an individual's choice to seek professional mental care treatment.
- O2 Click 'Go to recording studio,' where you can choose the video and audio source for your video presentation.
- Based on factors identified, investigate the likely hurdles which prevent individuals from seeking necessary mental care treatment.
- Constructive suggestions can then be made to tackle root cause issues to increase uptake of professional mental care treatment by individuals who may require them.

Predictive analyis model

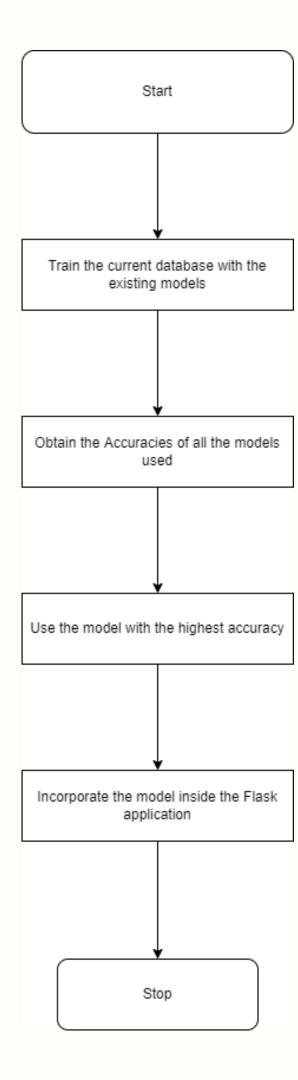


To profile an individual based on various inputs to determine likelihood of him/her to accept mental healthcare treatment from a professional based on the model's prediction results.

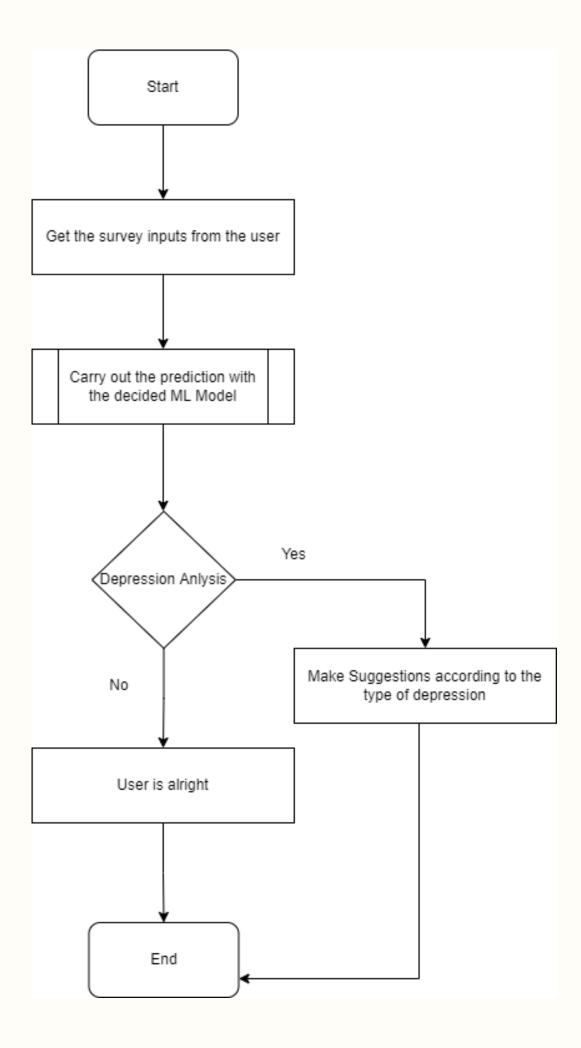
Machine Learning Workflow



Inculcating ML model inside Flask Application



Working of the Application



Output



Summary:

Data was last updated at	2021-01-17 12:54:08
Model was last trained at	2022-10-01 21:27:50

Overview of Latest Data Records:

Year	No. of Records
2018	358
2019	295
2020	154
Total	807

Data Sources from Open Sourcing Mental Illness (OSMI)

- 1. OSMI Mental Health in Tech Survey 2018
- 2. OSMI Mental Health In Tech Survey 2019
- 3. OSMI Mental Health In Tech Survey 2020

Project Name: Likelihood of Seeking Mental Health Treatment

Project Rationale: In general, having a high level of mental wellness is important on any level (individual or at a workplace) as it directly affects one's emotional state, social perceptions and work productivity. However, survey results and other media outlets have suggested that many individuals potentially in need of mental healthcare are not receiving or even seeking appropriate treatments. This leads directly to the project goals as stated below.

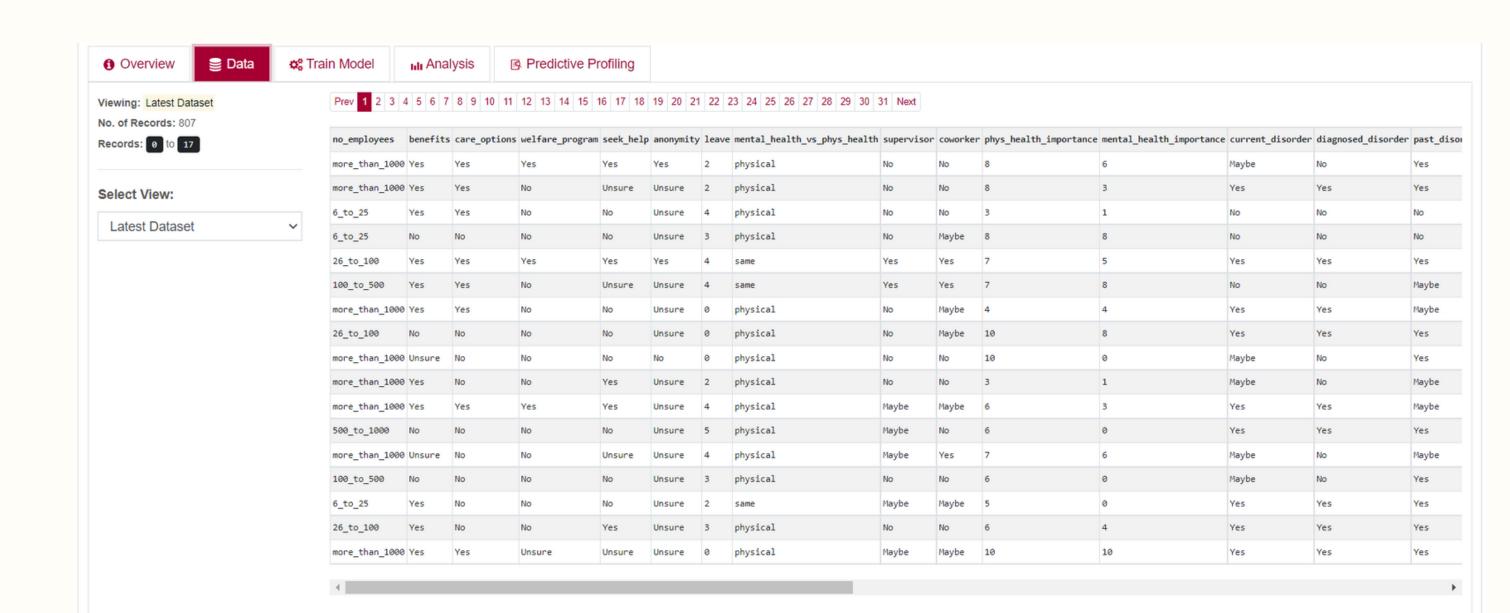
Project Goals:

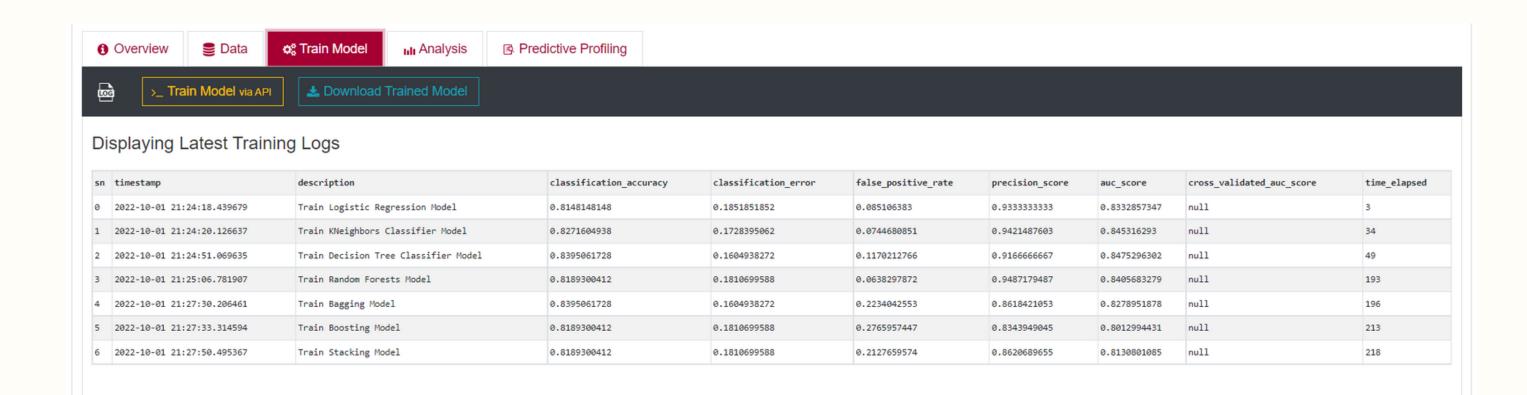
Data analysis and exploration:

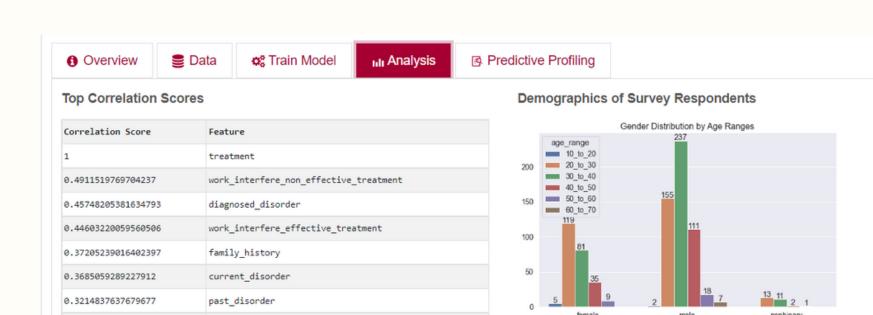
- To identify significant factors which influences an individual's choice to seek professional mental care treatment.
- Based on factors identified, investigate the likely hurdles which prevent individuals from seeking necessary mental care treatment.
- Constructive suggestions can then be made to tackle root cause issues to increase uptake of professional mental care treatment by individuals who may require them.

Train, Build and Deploy predictive analysis model:

 To profile an individual based on various inputs to determine likelihood of him/her to accept mental healthcare treatment from a professional based on the model's prediction results.



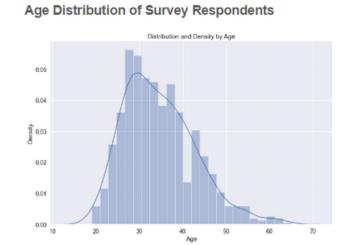






Gender

respondents are males



- Most survey respondents are between their late 20s and mid 30s, ages which make up majority of the active labour force
- This coincides with the nature of the survey → investigating mental health at a workplace

Analysis Part I

0.2481249474263511

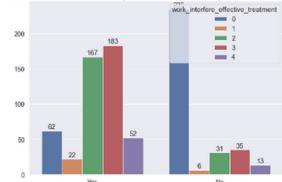
0.20369270501208459

care_options

friends_family



Work Interference, when treated effectively vs Treatment if you have a mental health disorder, how often do you feel that it interferes with your work when being treated effective.



Overview		
Predictive Profiling Please proceed to fill in details of an individual to gauge the likelihood that he/she would choose to seek mental healthcare treatment.		
Q1. Assuming the individual has a mental health disorder, how often does he/she feel that it interferes with his/her work when not being treated effectively? (i.e. experience symptoms) Not applicable to him/her Never Rarely Sometimes Often	Q5. Does the individual have a family history of mental illness? ● Yes ○ No ○ Unsure	
Q2. Has the individual ever been diagnosed with a mental health disorder? ● Yes ○ No	Q6. Did the individual have a mental health disorder in the past? ● Yes ○ Maybe ○ No	
Q3. Assuming the individual has a mental health disorder, how often does he/she feel that it interferes with his/her work when being treated effectively? Not applicable to him/her O Never O Rarely O Sometimes O Often	Q7. Does the individual know of the options for mental health care available under his/her employer health coverage? O Yes O No	
Q4. Does the individual currently have a mental health disorder? ● Yes ○ Maybe ○ No	Q8. How willing would the individual be to share with his/her friends & family that he/she has a mental illness? O 0 0 1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10	
	Predict!	
Yes, he/she is likely to seek mental healthcare treatment 1.	×	
Click Here to Look for Remedies		

Thank You