

Project Journal
Mental Health Analysis Using Machine Learning
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Brief Description	Challenges/ Difficulties	Time spent
Dataset selection; deciding on a dataset and making sure it relates to the dataset of my team members. I worked on the tabular dataset	We initially had three unrelated datasets, We compromised and decided on a domain and found three related datasets on mental health.	2 days
Analysing the data, we are a 3-man team and everyone contributed equally to all tasks since we already have 3 different types of datasets, i got the tabular data which I cleaned, analysed, visualized and used machine learning models for the prediction.	<ol style="list-style-type: none"> 1. While analysing I had a particular column that had range values and had a "-" in between and this column kept on throwing error so I wrote a Python code to split the data 2. I also had a couple of categorical data I had to convert to numbers. At the end of the conversion, I had gone from 12 columns to 70 columns as one hot encoder creates columns for all occurring inputs. I had to use feature selection to reduce the data from 70 to the best 10 3. My target column was also categorical with 4 unique values. If I had used one hot encoding it would have given me 4 new columns and my target feature is supposed to be one. I did some research and used label encoding which helped me achieve my goal 	1 week
Reporting; we all individually wrote separate reports on our findings and then as a group merged them		2 weeks
Video presentation	I presented the first part of the video	1 day