Tranquilo Anxiety Level Classification



Agenda

- 1 Problem Statement
- 2 Related Work
- 3 Data Exploration
- 4 Data Preprocessing
- 5 ML Model
- 6 Deployment(Mobile App & Website)

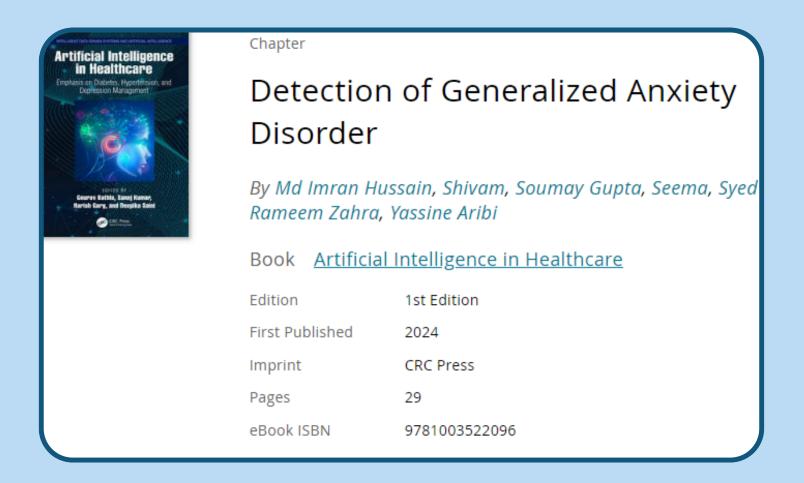


Problem Statement



Anxiety disorders affect millions globally, yet diagnosing and assessing severity is often subjective and inconsistent. There is a need for a reliable. data-driven solution to classify anxiety levels, enabling better intervention and support. This project uses machine learning to predict anxiety severity based on key health indicators.

Related Work



 https://www.taylorfrancis.com/chapters/edit/10.1201/9781003522 096-7/detection-generalized-anxiety-disorder-md-imran-hussainshivam-soumay-gupta-seema-syed-rameem-zahra-yassine-aribi

https://dergipark.org.tr/en/pub/ejosat/article/999914



Data Exploration

• Dataset has 1566 rows, 17 columns/features

• There are some little null values

Most features are Categorical

- We have 17 columns:
- 15 features
- 2 Labels: gad_score & anxiety_severity



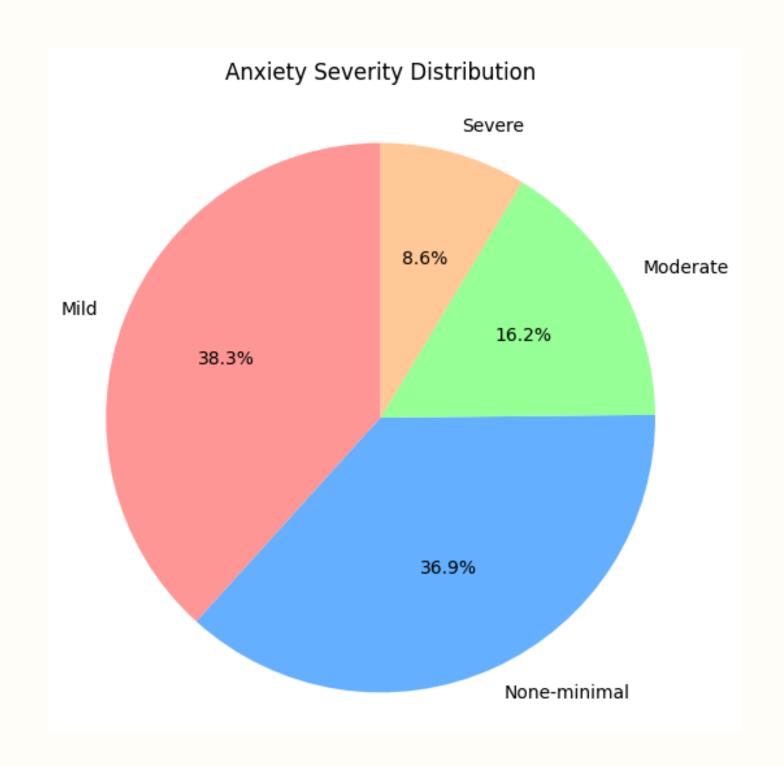
Data Exploration

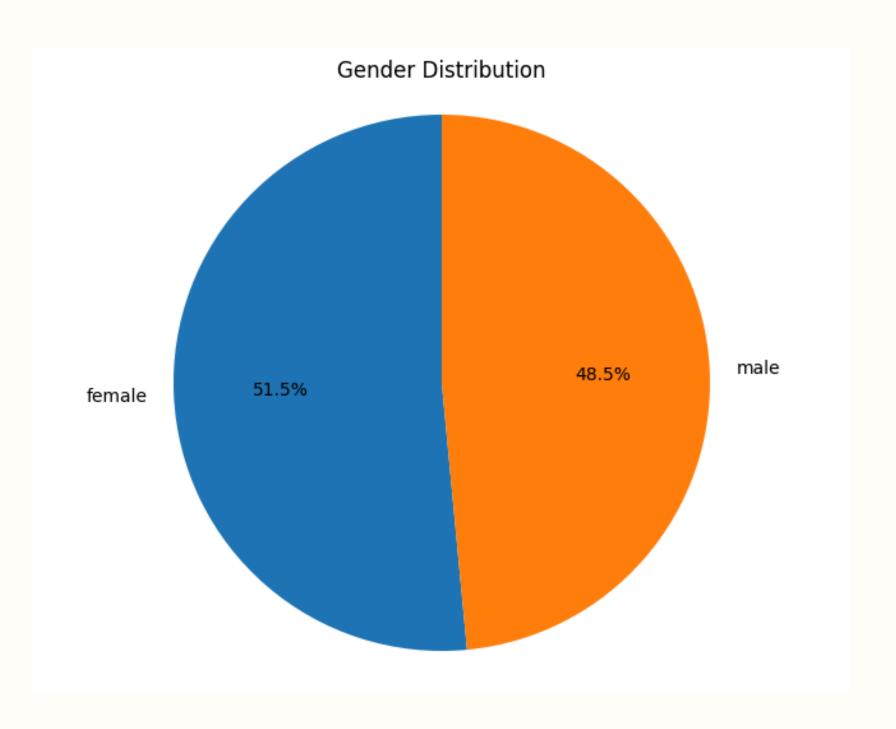
	age	gender	bmi	who_bmi	phq_score	depression_severity	depressiveness	suicidal	depression_diagnosi
0	19	male	33.333333	Class I Obesity	9	Mild	False	False	Fals
1	18	male	19.841270	Normal	8	Mild	False	False	Fals
2	19	male	25.102391	Overweight	8	Mild	False	False	Fals
3	18	female	23.738662	Normal	19	Moderately severe	True	True	Fals
4	18	male	25.617284	Overweight	6	Mild	False	False	Fals
1561	24	female	21.096191	Normal	6	Mild	False	False	Fals
1562	22	male	25.308642	Overweight	4	None-minimal	False	False	Fals
1563	22	male	22.720438	Normal	2	None-minimal	False	False	Fals
1564	22	female	23.033168	Normal	17	Moderately severe	True	False	Fals
1565 1566 ro	22 ws × 1	male 6 columns	22.598140	Normal	6	Mild	False	False	Fals

target

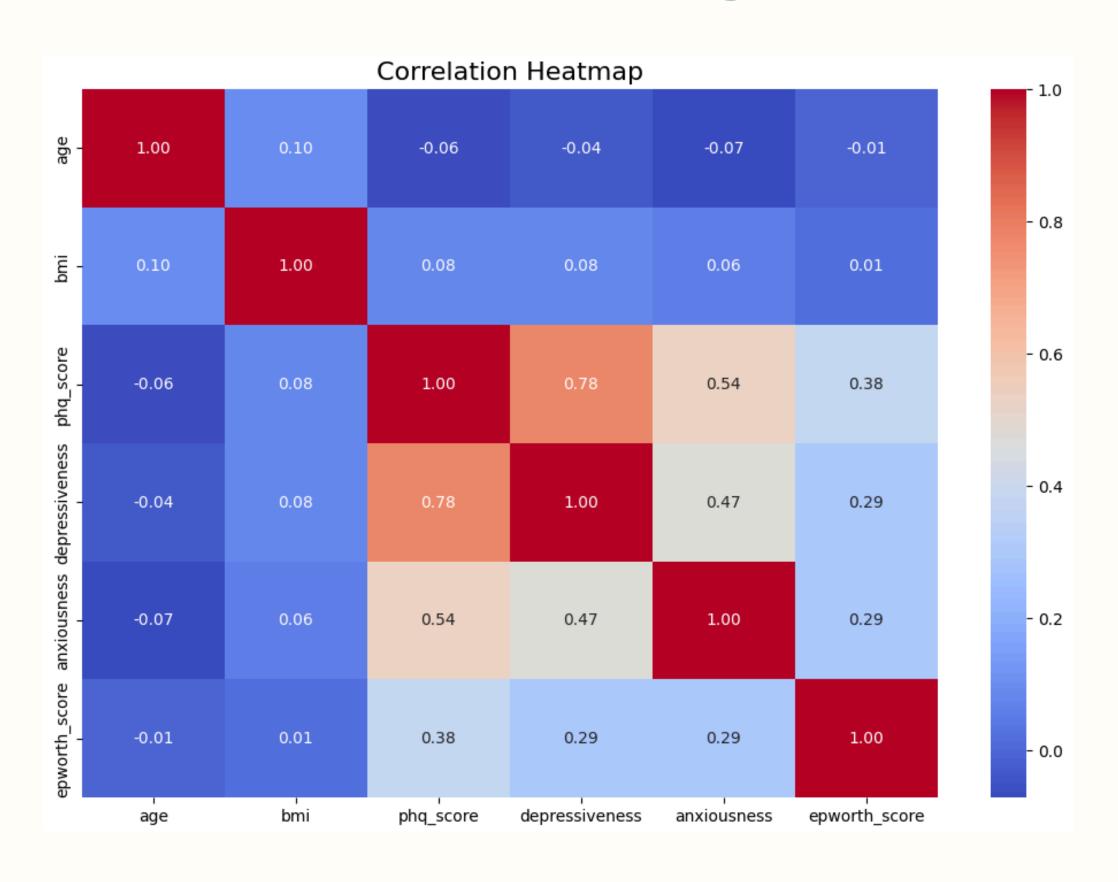


Data Exploration



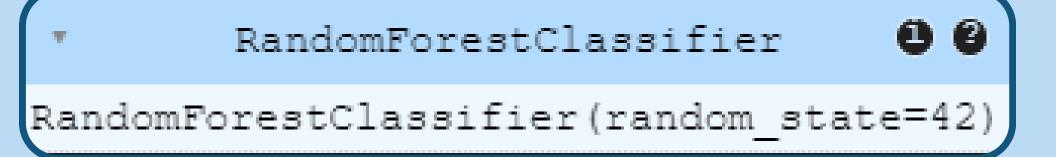


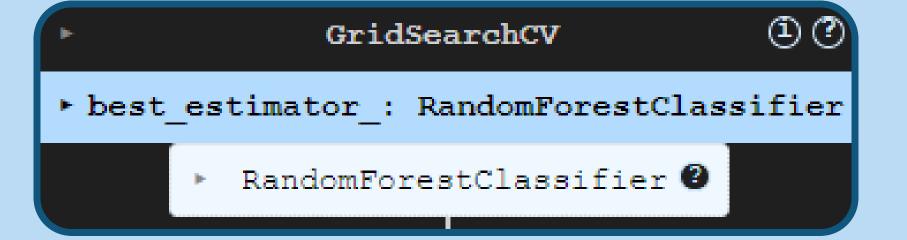
Data preprocessing



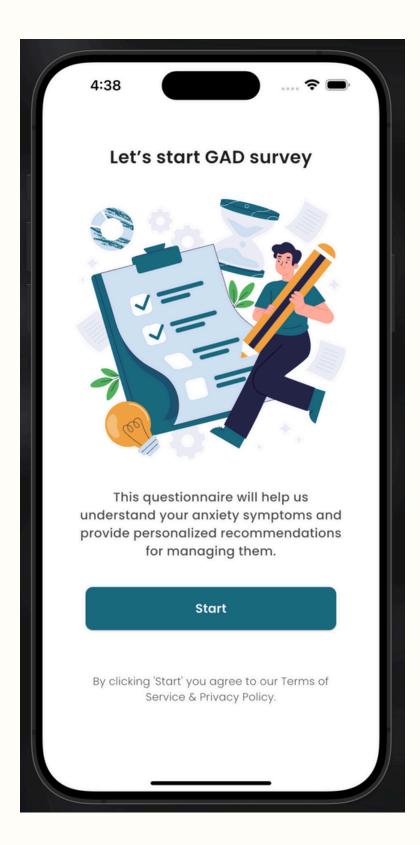
ML Model

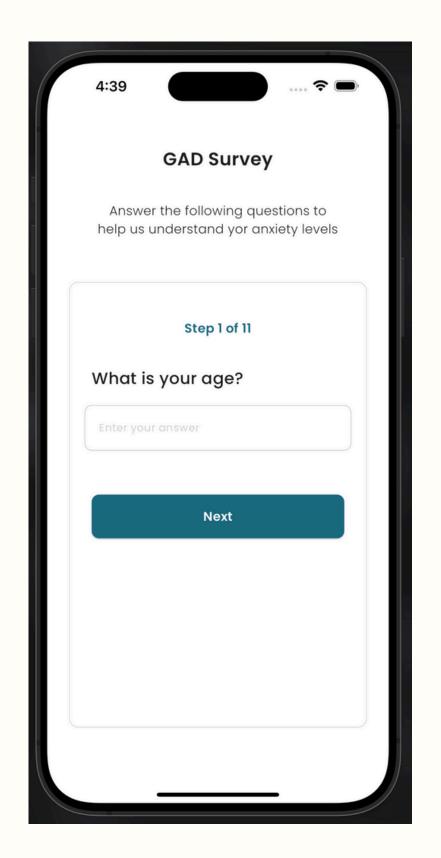
[Random Forest Classifier]

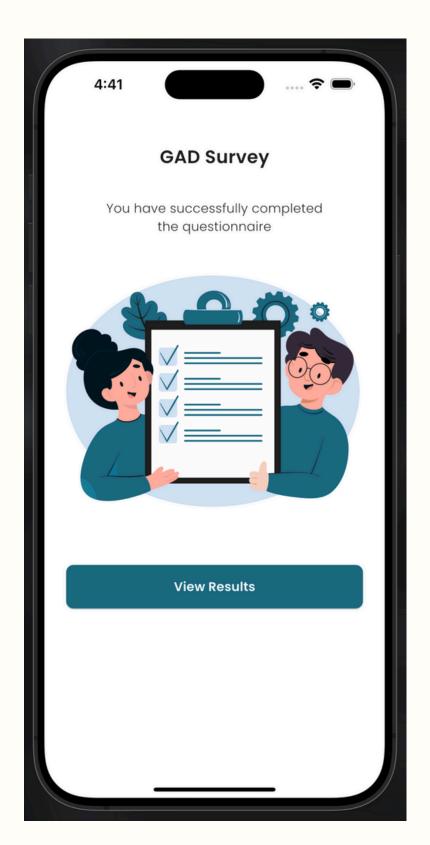


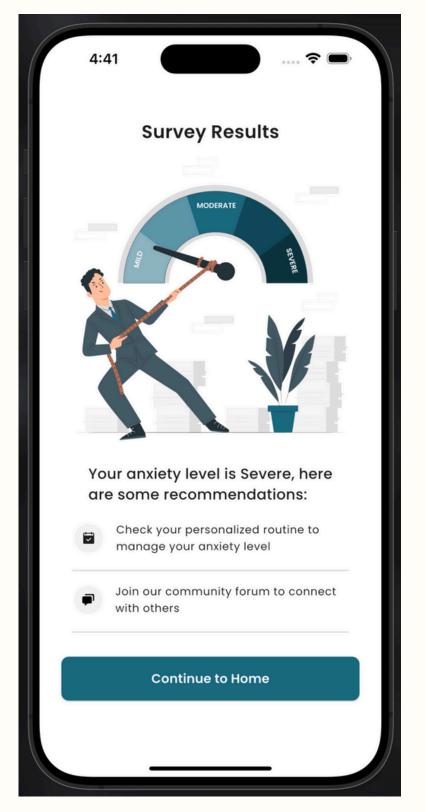


Deployment (Mobile App)

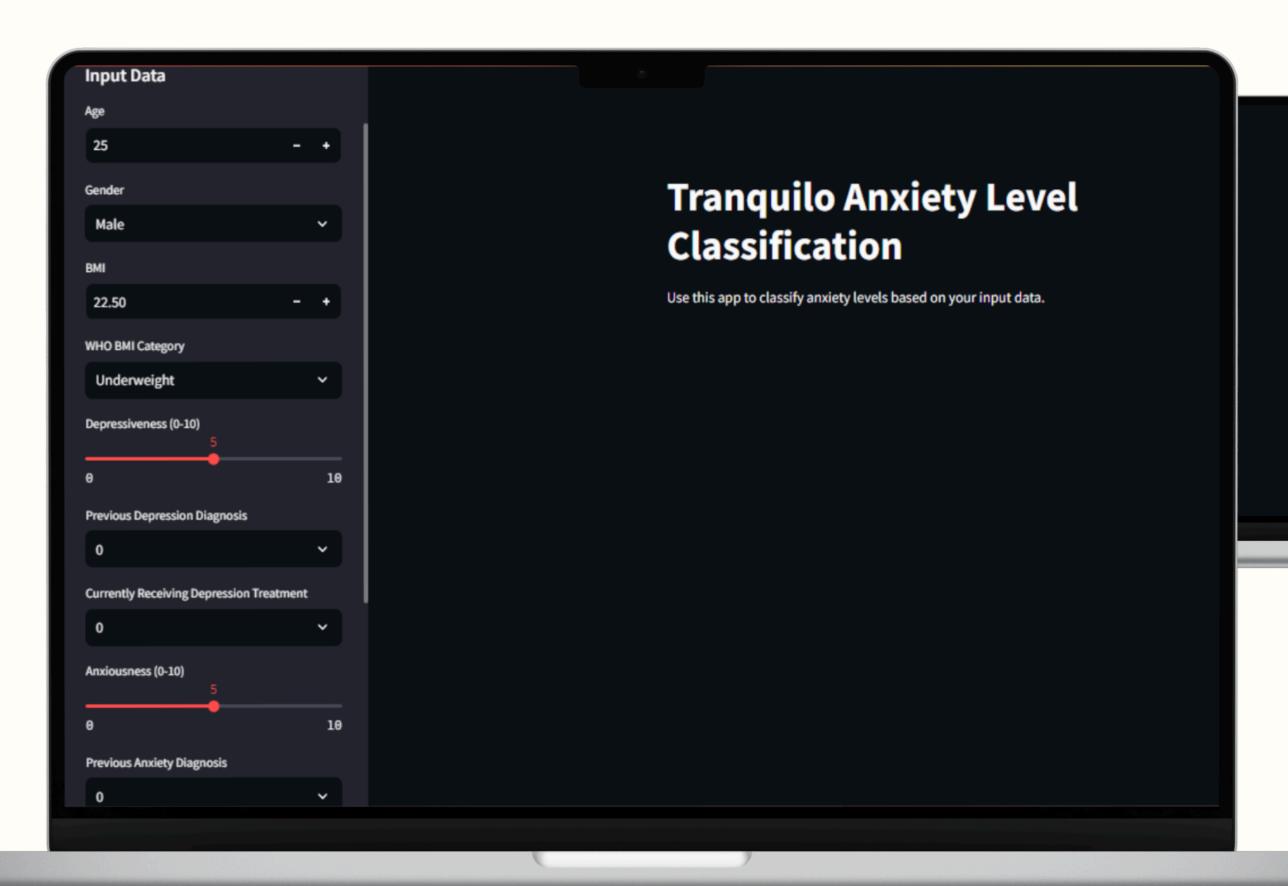








Deployment (Website)

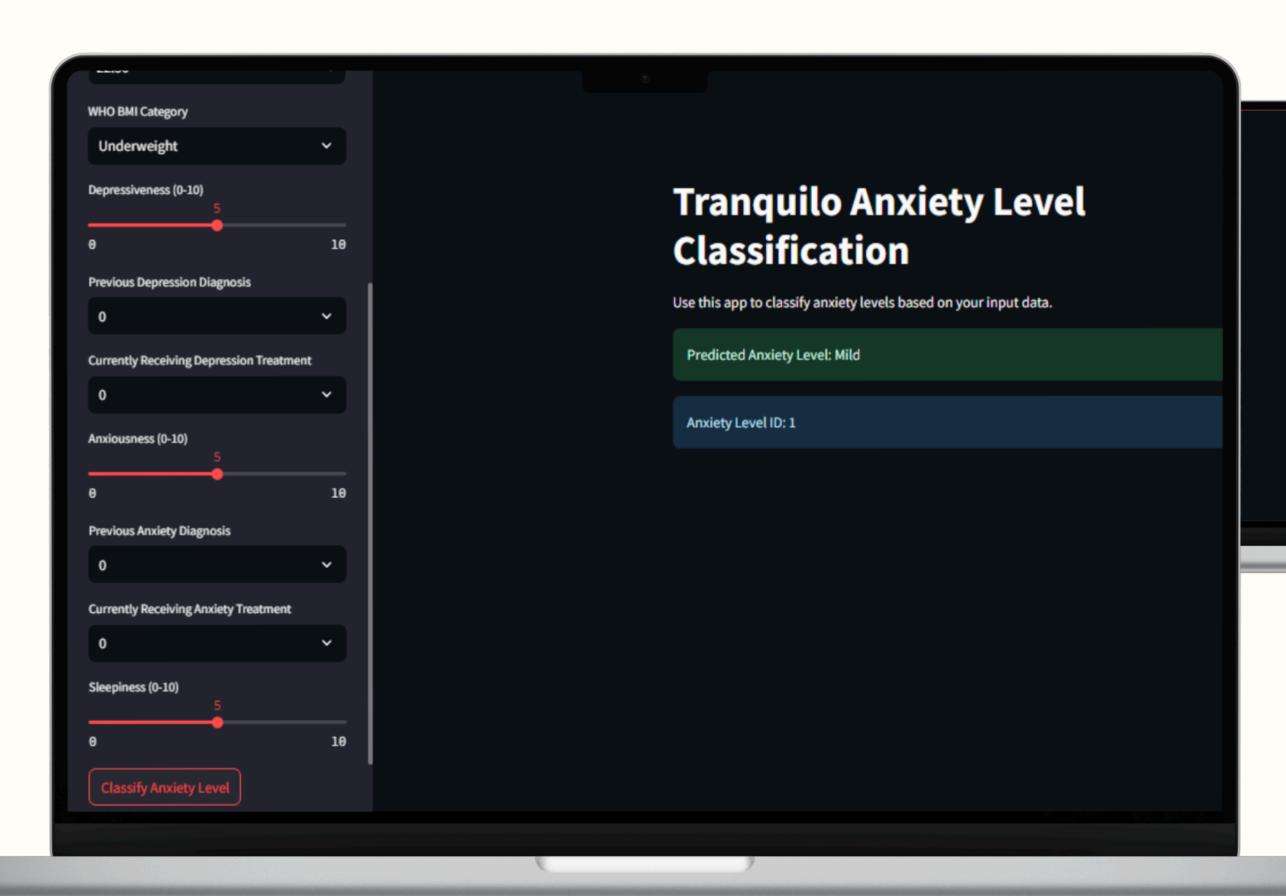


Tranquilo Anxiety Level Classification Use this app to classify anxiety levels based on your input data.

Predicted Anxiety Level: Mild

Anviety Level ID: 1

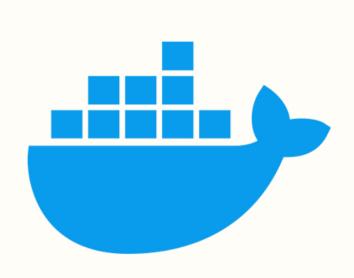
Deployment (Website)



Tranquilo Anxiety Level Classification

Use this app to classify anxiety levels based on your input data.

Technolgy Used











Related Work

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2-https://dergipark.org.tr/en/pub/ejosat/article/999914

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Thank You