

# MED-ACCESS: Disease Prediction Using AI

## PROBLEM

Shortage of doctors in South Africa leads to delays in treatment. Patients need faster and accessible healthcare support.

## OBJECTIVES

- Build AI model to predict disease from symptoms.
- Support healthcare staff.
- Showcase AI for Business Analysis.

## DATASET

- Symptoms encoded as 0/1 values.
- Target: Disease.

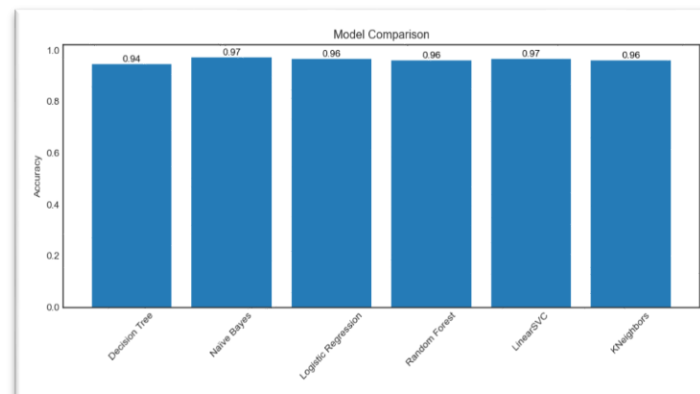
	diseases	anxiety and nervousness	depression	shortness of breath	or psychotic symptoms	chest pain	dizziness	insomnia	involuntary movements	chest tightness	...
0	panic disorder	1	0	1	1	0	0	0	0	1	...
1	panic disorder	0	0	1	1	0	1	1	0	0	...
2	panic disorder	1	1	1	1	0	1	1	0	0	...
3	panic disorder	1	0	0	1	0	1	1	1	0	...
4	panic disorder	1	1	0	0	0	0	1	1	1	...

## WORKFLOW

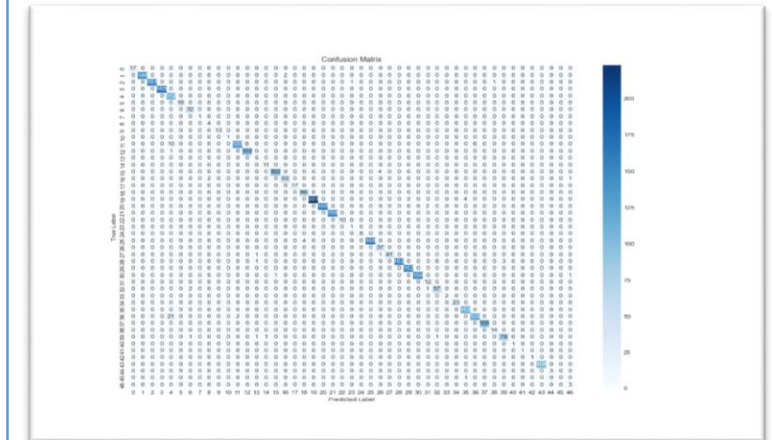
Raw Data → Cleaning → Encoding → Model Training → Evaluating → Prediction

## ALGORITHMS TESTED

- Decision Tree
- Random Forest
- Logistic Regression
- Naive Bayes
- LinearSVC
- KNN



## RESULTS



## FUTURE WORK

- NLP, Speech , Chabot
- Deep Learning(CNNs, LSTMs).

## CONCLUSION

AI can assist doctors in early prediction, improving healthcare accessibility.