

# Metabolic Syndrome

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## What is Metabolic Syndrome?

This is a cluster of conditions that can show a predisposition of diseases that can be managed but have not been cured, yet.

- Diabetes
- Heart Attack
- Stroke



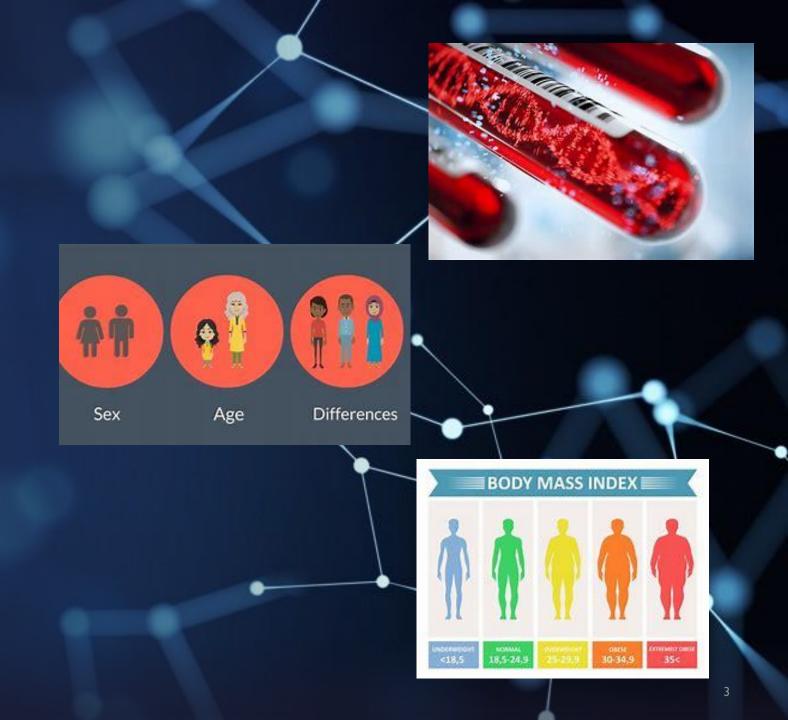




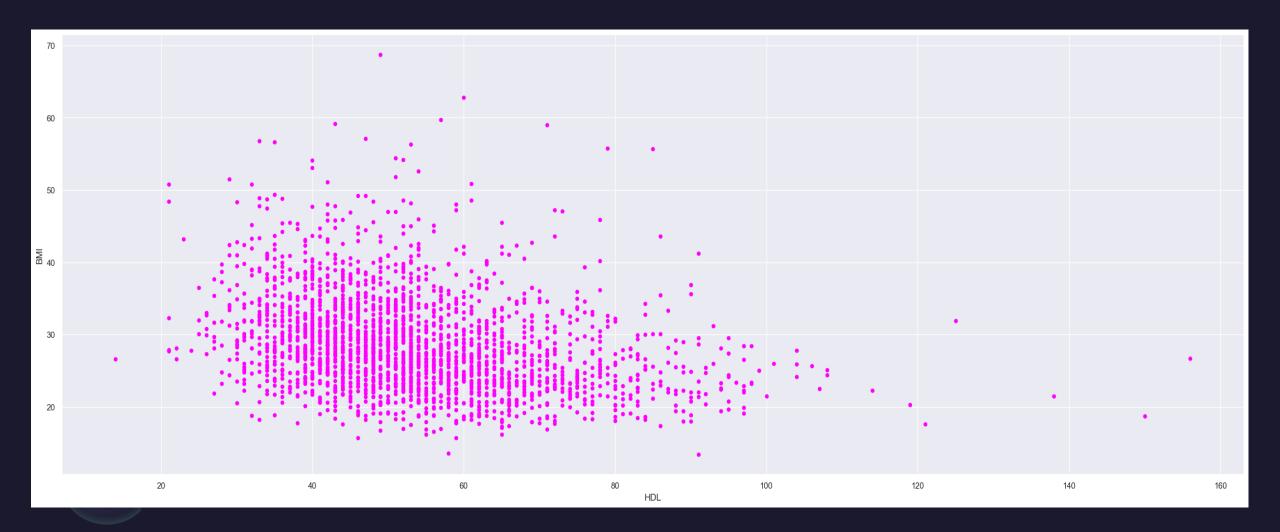


## Factors

- -Marital Status
- -Race
- -Sex
- -Age
- -BMI
- -Waist Circumference
- -Lipid profile test
- -Blood Glucose test



### BMI and HDL



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# Blood Glucose by patient's age

Category	Fasting value	Post prandial / aka post meal	
	Minimum	Maximum	2 hours after meal
Normal	70 mg/dl	99 mg/dl	Less than 140 mg/dl
	4 mmol/l	6 mmol/l	Less than 7.8 mmol/l
Pre-diabetes	100 mg/dl	125 mg/dl	140-199 mg/dl
	6.1 mmol/l	6.9 mmol/l	7.8-11 mmol/l
Diabetes	More than 126 mg/dl		More than 200
	More than 7 mmol/l		More than 11.1 mmol/l

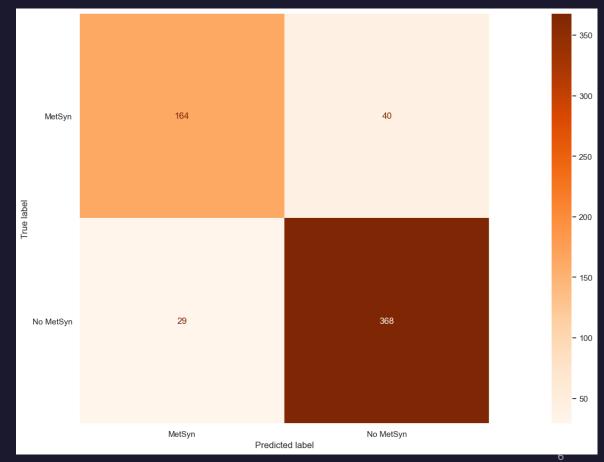


#### XGBoost Classifier

The best model for this project was the eXtreme Gradient Boosting.

88% accuracy score

Confusion Matrix shows the best presentation of this dataset.



- This data will be essential to help doctors with diagnosis their patients with preventative care.
- This project will help reduce the amount of money hospitals use for patients that don't have insurance but need urgent care/surgeries.
- This can lead to a reduction in strain for hospital staff who see patients' preventable medical conditions.

With that being said....



The way to get started is to quit talking and begin doing.

Walt Disney







# Thank You

## Any Questions

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