



Machine Learning Application on

Cardiovascular Diseases

Early Detection



Cardiovascular disease

is the leading cause of mortality worldwide, it would be beneficial to have an algorithm for its early detection.

Goal for this Assignment

Be able to detect the presence or absence of cardiovascular disease early depending on variables such as patient's age, gender, physical activity and more.



Machine Learning Models

- Logistic regression
- Decision trees and random forests
- Support Vector Machine (SVM)
- Neural Networks

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Logistic Regression Performance



Accuracy Score: 63.82%

Confusion Matrix

	Predicted 0	Predicted 1
Actual 0	5629	3132
Actual 1	3200	5539

Classification Report

	precision	recall	f1-score	support
0	0.64	0.64	0.64	8761
1	0.64	0.63	0.64	8739

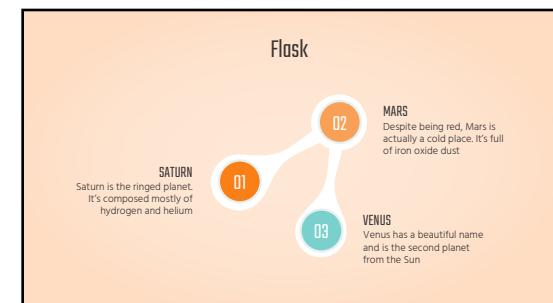
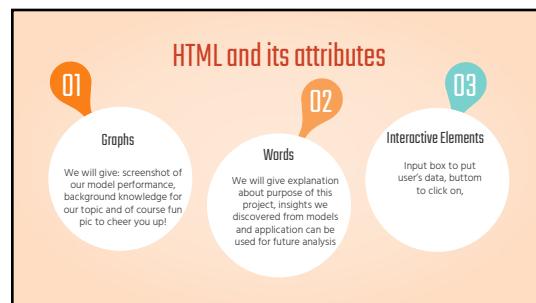
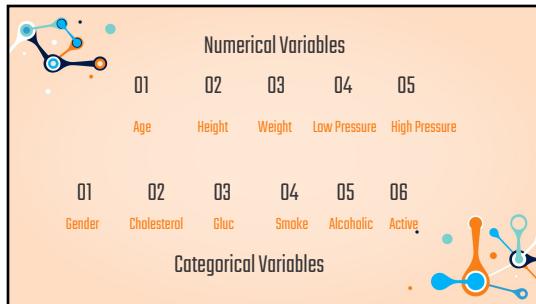
accuracy
macro avg
weighted avg

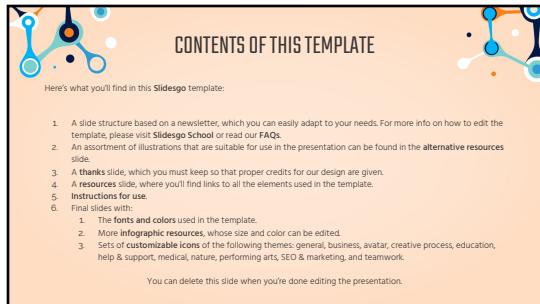
0.64 0.64 0.64 17500



Database

A total number of 70000 records were presented with 12 columns of information





CONTENTS OF THIS TEMPLATE

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5. Instructions for use.
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 1. The [font and colors](#) used in the template.
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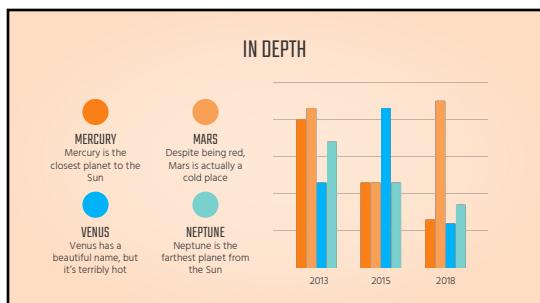


A PICTURE IS WORTH A THOUSAND WORDS

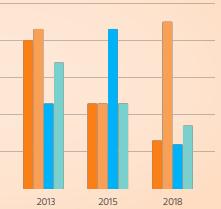


IN DEPTH

You could enter a subtitle here if you need it



IN DEPTH



Year	Mercury	Mars	Venus	Neptune
2013	High	Medium	Low	Very Low
2015	Medium	Medium	Medium	Very Low
2018	High	Very Low	Medium	Very Low

MERCURY
Mercury is the closest planet to the Sun

MARS
Despite being red, Mars is actually a cold place

VENUS
Venus has a beautiful name, but it's terribly hot

NEPTUNE
Neptune is the farthest planet from the Sun



SECTOR NEWS



VENUS
Venus has a beautiful name, but it's terribly hot

MERCURY
Mercury is the closest planet to the Sun

MARS
Despite being red, Mars is actually a cold place

NEPTUNE
Neptune is the farthest planet from the Sun

SATURN
Saturn is the ringed one and a gas giant

JUPITER
It's the biggest planet in our Solar System



PARTICIPANT REVIEWS



LANE SHARPE
"Despite being red, Mars is a cold place"
—LANE SHARPE

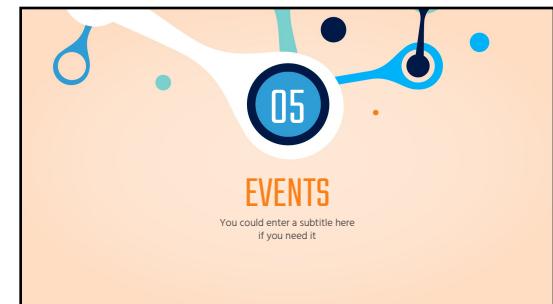
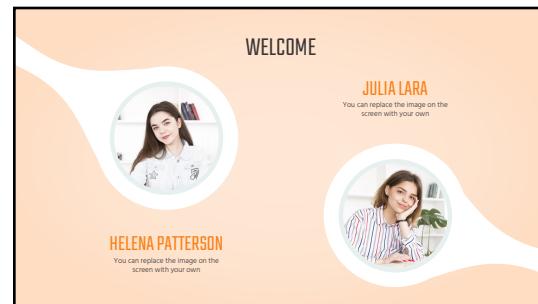
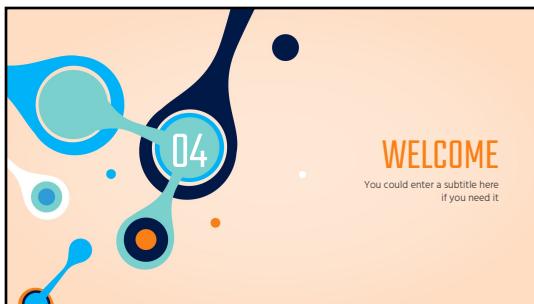
EMILIO BAIRD
"Mercury is the closest planet to the Sun"
—EMILIO BAIRD

WOODROW FOX
"Saturn is the ringed one and a gas giant"
—WOODROW FOX

ANIYAH DOTSON
"Venus is the second planet from the Sun"
—ANIYAH DOTSON



OUR NUMBERS		
	MASS (EARTHS)	GRAVITY (EARTHS)
MARS	100	355
MERCURY	490	150
VENUS	1,000	260
DIAMETER (EARTHS)		
MARS	370	
MERCURY	890	
VENUS	245	



REVIEW OF PAST EVENTS

SATURN
Saturn is the ringed one and a gas giant

MERCURY
Mercury is the closest planet to the Sun

JUPITER
It's the biggest planet of them all

NEPTUNE
It's the farthest planet from the Sun

VENUS
It's the second planet from the sun

UPCOMING EVENTS

MERCURY
Mercury is the closest planet to the Sun

VENUS
Venus is the second planet from the Sun

MARS
Despite being red, Mars is actually a cold place

APRIL 12

MAY 04

JUNE 23

CHEMISTRY ICONS

ALTERNATIVE RESOURCES

RESOURCES

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PINNS

- Female student sitting with book and smiling
- Teenage student sitting at table in classroom
- Modern microscope in laboratory
- Scientist making test in laboratory

VERTEXE

- Abstract science background
- Chemistry test tubes
- Flat chemistry background
- Flat chemistry laboratory with flasks
- Flat chemistry background
- Flat chemistry background II

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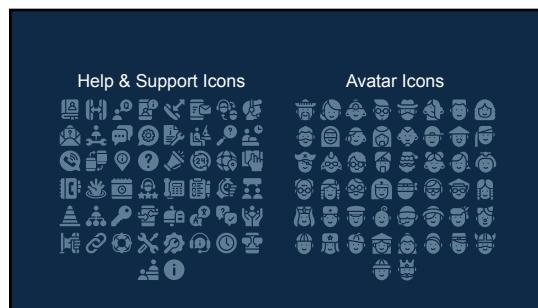
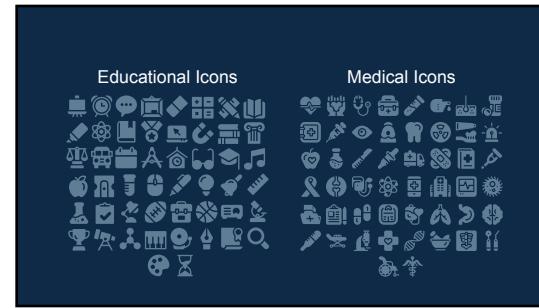
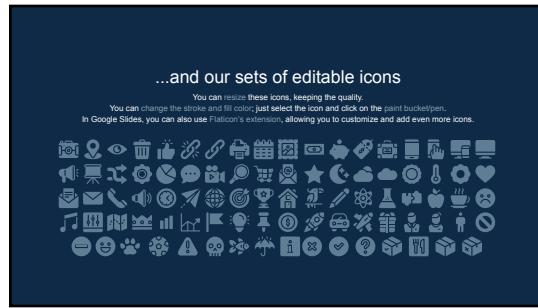
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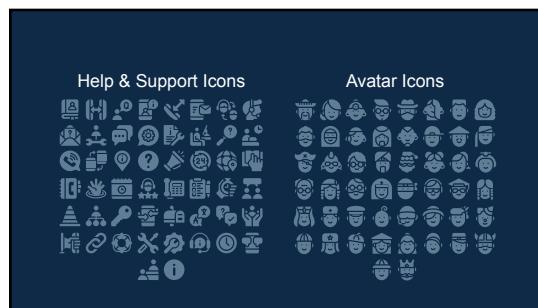
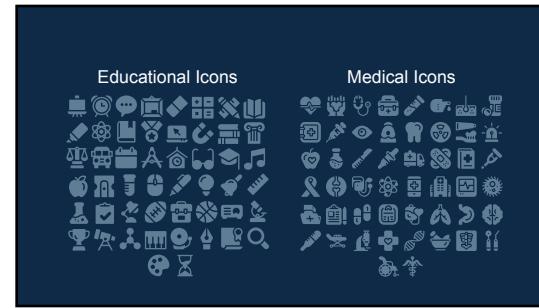
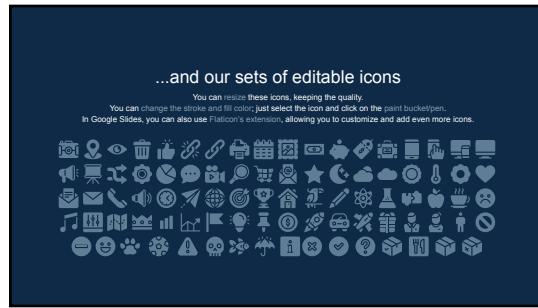
Teamwork Icons

Help & Support Icons

Avatar Icons

Creative process Icons

Performing Arts Icons



Business Icons

Teamwork Icons

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Avatar Icons

Creative process Icons

Performing Arts Icons

Nature Icons



SEO & Marketing Icons



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