





DIAGNOSIS360

TEAM ID

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Abstract

- Diagnosis 360 is an intelligent healthcare system that utilizes machine learning algorithms to predict the likelihood of a patient developing various diseases based on their medical history, lifestyle, and other relevant factors. The system takes in data from various sources such as electronic health records, medical databases, and patient self-reports to create a comprehensive profile of the patient.
 - The system uses various machine learning models to predict the probability of a patient developing multiple diseases such as diabetes, Heart Disease, Breast Cancer
- disease, and more. These predictions are based on various features such as age, gender, family history, lifestyle factors such as smoking, alcohol consumption, exercise habits, and more.







PROBLEM STATEMENT

- Traditional diagnostic methods can be time-consuming and may not always provide accurate results, leading to delays in treatment and potentially negative health outcomes for patients
 - The need for accurate and efficient diagnosis of multiple diseases in patients.
- with the growing prevalence of chronic diseases and complex medical conditions, healthcare professionals are faced with a growing burden of identifying and treating multiple diseases in patients. This can lead to increased
- workload and stress on healthcare systems, as well as a higher risk of misdiagnosis or missed diagnoses.







PROJECT OVERVIEW

Multiple disease prediction system [Diagnosis360] is a project that aims to predict various diseases based on the input symptoms of the patient. In this project, several machine learning algorithms have been implemented to predict the disease accurately. The algorithms used in this project include Decision Tree, SVM, Logistic Regression.

- 1) Decision Tree Algorithm for Symptom Checker
- 2) Support Vector Machine for Diabetes and Parkinson's Disease Prediction
- 3) Heart Disease Prediction from Logistic Regression
- 4) Breast Cancer Prediction using Neural Network







WHO ARE THE END USER?

- Patients can use this system to self-assess their health and receive recommendations for further medical evaluation or treatment.
- Healthcare providers such as doctors, nurses, and other medical professionals can use this system to help diagnose and treat patients.
- Researchers can use this system to analyze data and identify patterns or correlations between diseases and various risk factors.







THE WOW FACTOR

- Its ability to leverage advanced technology to improve the accuracy and efficiency of disease diagnosis and treatment, ultimately leading to better patient outcomes and a healthier population.
 - Analyze large amounts of patient data and use advanced machine learning algorithms to accurately predict the likelihood of multiple diseases in a
- single patient.

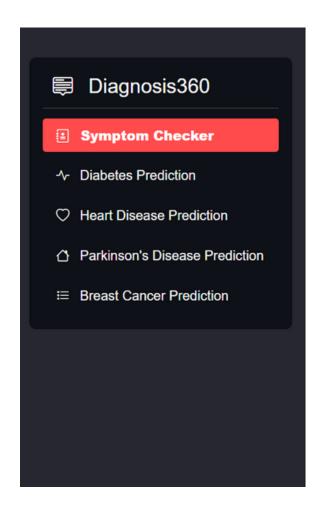






USER INTERFACE

HOME PAGE:









SYMPTOM CHECKER:

×	□ abd	dominal_pain	abnormal_menstruation	acidity
			_	anxiety
■ Diagnosis360	□ bac			blackheads
E Diagnosissoo				blood_in_sputum
Symptom Checker				breathlessness
-∿ Diabetes Prediction	□ brit	ttle_nails	on	burning_micturition
○ Heart Disease Prediction	_ che	est_pain	bruising	cold_hands_and_feets
	□ con	ma .	chills	constipation
	☐ con	ntinuous_feel_of_urine	congestion	cough
E DIESSI CANCEL FIEUICION	☐ crar	mps	continuous_sneezing	dehydration
	☐ dep	pression		dischromic_patches
	☐ dist	tention_of_abdomen		drying_and_tingling_lips
	☐ enla	larged_thyroid	_	extra_marital_contacts
	☐ fam	nily_history	_) fatigue
	☐ fluid	id_overload	_	headache
	☐ high	sh_fever	foul_smell_of urine hip_joint_pain	history_of_alcohol_consum ption
	incr	reased_appetite	пір_јопі_рапі	puon







SYMPTOM CHECKER RESULT:

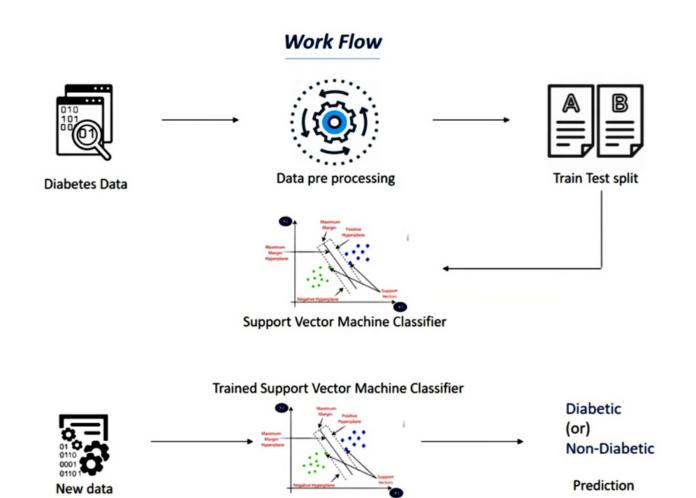
×	sinus_pressure	shivering	rusty_sputum	
	slurred_speech	skin_peeling	silver_like_dusting	
E Diamagia 200	spotting_urination	small_dents_in_nails	skin_rash	
■ Diagnosis360	✓ stomach_pain	stiff_neck	spinning_movements	
Symptom Checker	swelled_lymph_nodes	sunken_eyes	stomach_bleeding	
-∿ Diabetes Prediction	swollen_blood_vessels	swelling_joints	sweating	
○ Heart Disease Prediction	throat_irritation	swollen_extremeties	swelling_of_stomach	
	unsteadiness	toxic_look_(typhos)	swollen_legs	
	watering_from_eyes	visual_disturbances	ulcers_on_tongue	
⊟ Breast Cancer Prediction	weight_gain	weakness_in_limbs	vomiting	
	yellow_urine	weight_loss	weakness_of_one_body_si de	
	itching	yellowing_of_eyes	✓ yellow_crust_ooze	
			yellowish_skin	
	Diagnose			
	You are diagnosed with : Hepatitis C			
	Please consult a doctor			







BLOCK DIAGRAM FOR DIABETES PREDICTION

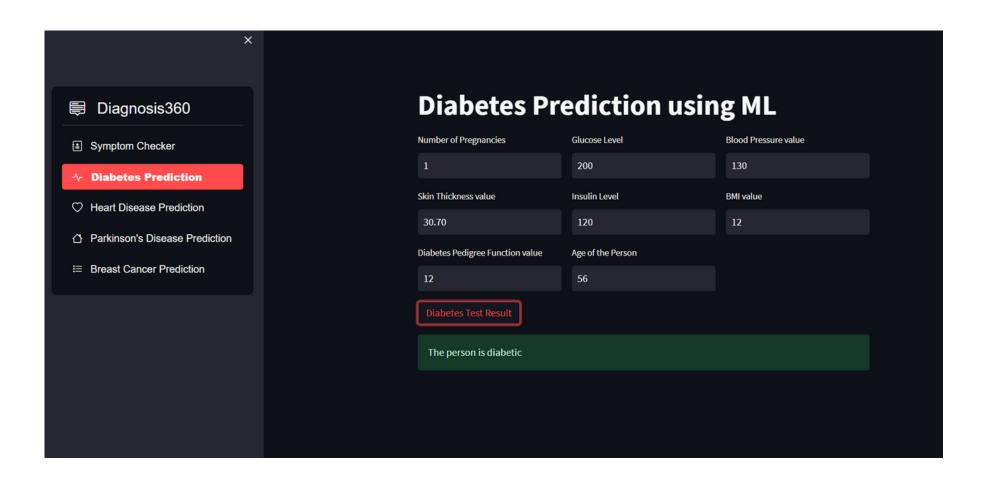








DIABETES PREDICTION:

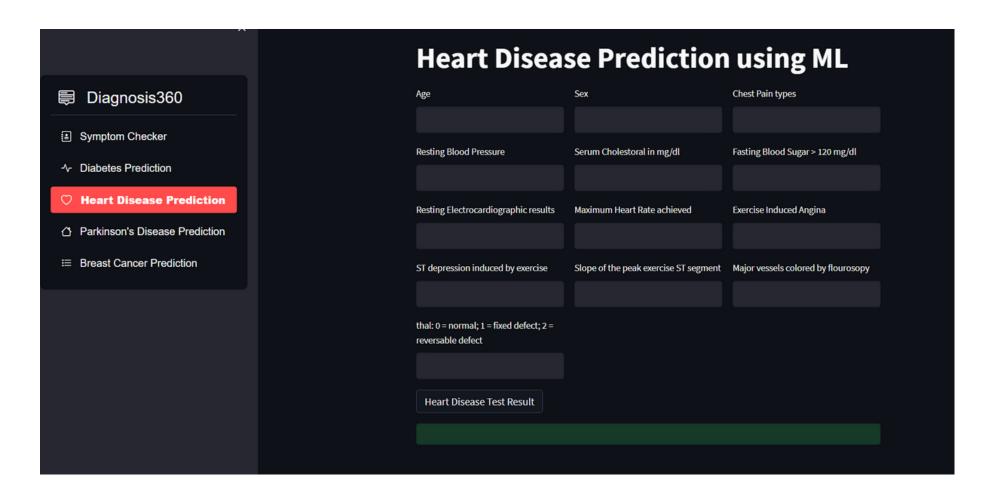








HEART DISEASE PREDICTION:

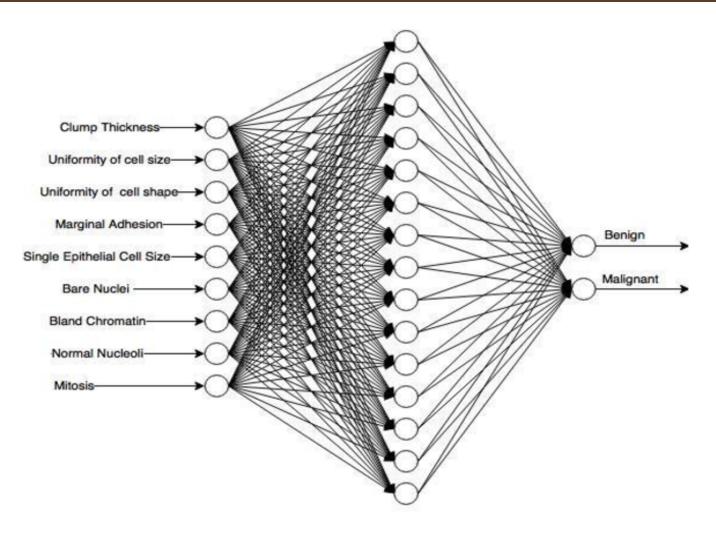








BLOCK DIAGRAM FOR BREAST CANCER PREDICTION

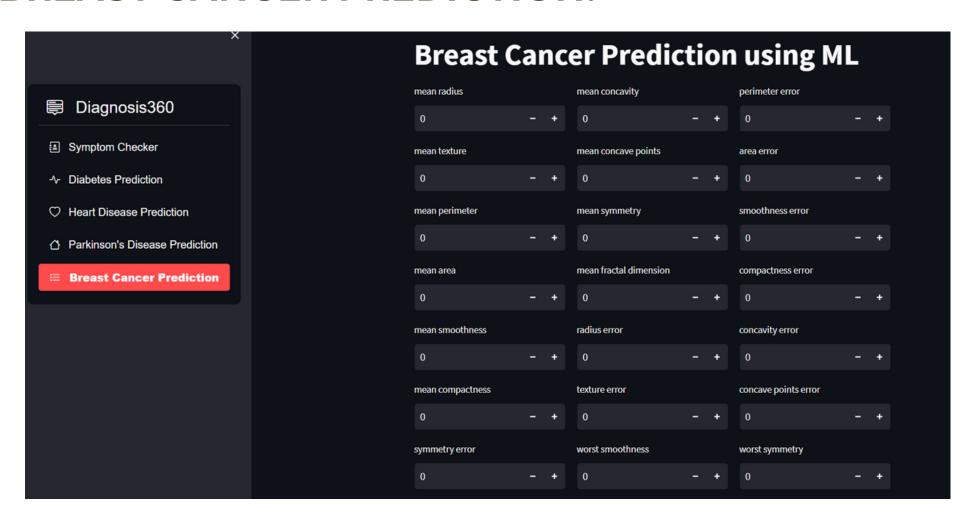








BREAST CANCER PREDICTION:









Conclusion

In this project, multiple machine learning algorithms were implemented to predict various diseases based on input symptoms. Decision Tree algorithm was used to diagnose diseases based on input symptoms. SVM was used to predict diabetes, breast cancer, and Parkinson's disease, and Logistic Regression was used to predict heart disease. The accuracy of each algorithm was dependent on the quality and size of the dataset used to train the model. Overall, this project has shown the potential of machine learning algorithms in predicting various diseases accurately.







MEET OUR TEAM



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