

The background features a stylized medical illustration. At the top right, there is an orange insulin bottle labeled 'INSULIN Injection 10ml', a syringe, and a container of insulin pens. On the left side, there is a blue medical device with a screen and buttons, a blue glucose meter showing '104 mg/dL', and a blue syringe. The overall color palette consists of light orange, blue, and white.

TECHDIVAS PREDICT

TEAM MEMBERS

Sahana M -Front End Connectivity
Sindhu B - Model Crafting
Sinchana N S - Model Crafting
Keerthana P M - Model Testing
Nanditha A U - Model Capturing
Praneetha Umesh - Model Capturing

PROBLEM STATEMENT

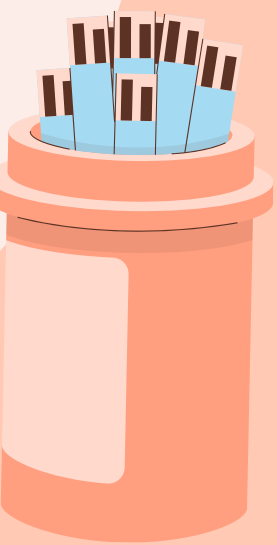
The world is facing an unprecedented challenge in the form of diseases that spread rapidly and have the potential to cause widespread devastation. The current pandemic has highlighted just how unprepared we are to deal with such threats, and it has become clear that we need better tools to detect and respond to outbreaks before they become global crises.

Traditional methods of disease detection are slow, expensive, and often ineffective. They rely on manual testing and analysis of samples, which can take days or even weeks to produce results. This delay can be deadly in the case of fast-spreading diseases, as it allows the virus or bacteria to continue spreading unchecked. We need a more efficient and accurate way to detect diseases, one that can provide instant results and help us respond quickly to outbreaks.



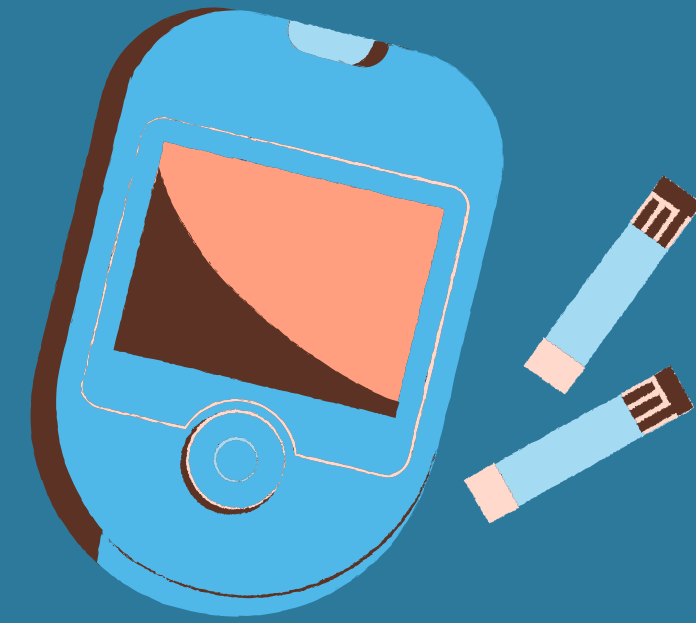
REVOLUTIONIZING DISEASE PREDICTION IN MODERN TECHWORLD

In the modern tech-driven world, there is a critical need to develop an advanced multi-disease prediction system, TechDivas Predict, to tackle healthcare challenges. Traditional diagnostic methods suffer from limitations in accuracy, time, and cost. This system aims to leverage cutting-edge technologies, such as AI and machine learning, to predict multiple diseases simultaneously. By analyzing vast amounts of health-related data, including electronic health records and genetic information, TechMed Predict will identify patterns and risk factors associated with various diseases, enabling early detection and personalized management.



The benefits of TechDivas Predict are immense, as it empowers healthcare professionals to deliver timely and accurate diagnoses, leading to improved patient outcomes. The proactive approach to healthcare will shift the focus from reactive treatment to preventative measures, potentially reducing the burden on healthcare systems. However, challenges related to data privacy, interpretability, and system validation must be overcome through interdisciplinary collaboration between experts in healthcare, data science, and technology.

TechDivas Predict's mission is to revolutionize disease prediction, transforming healthcare into a proactive, data-driven system that prioritizes patient well-being.



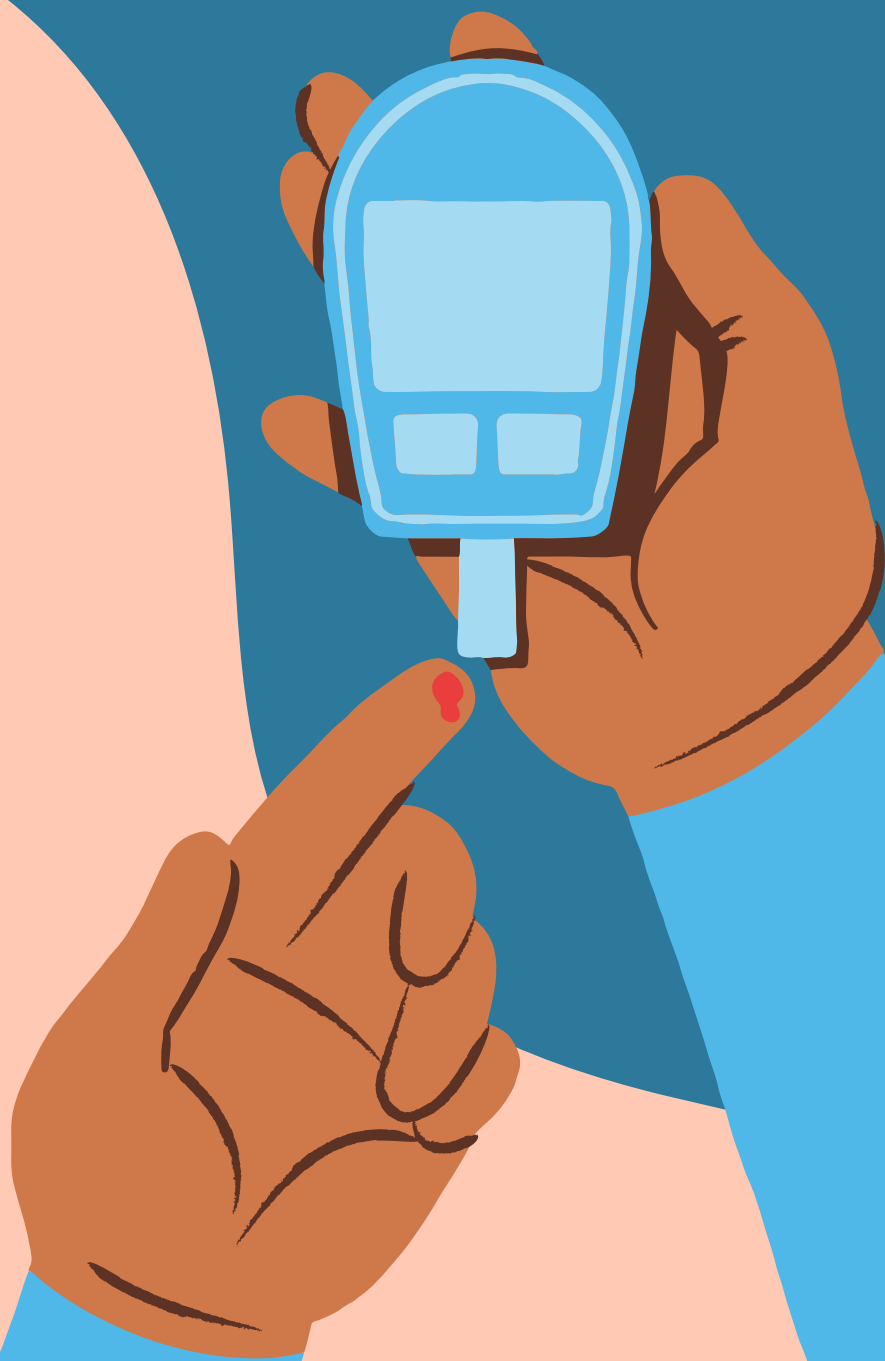
TECHDIVAS PREDICT:

"MULTI DISEASE PREDICTION FOR TOMORROW'S WORLD"



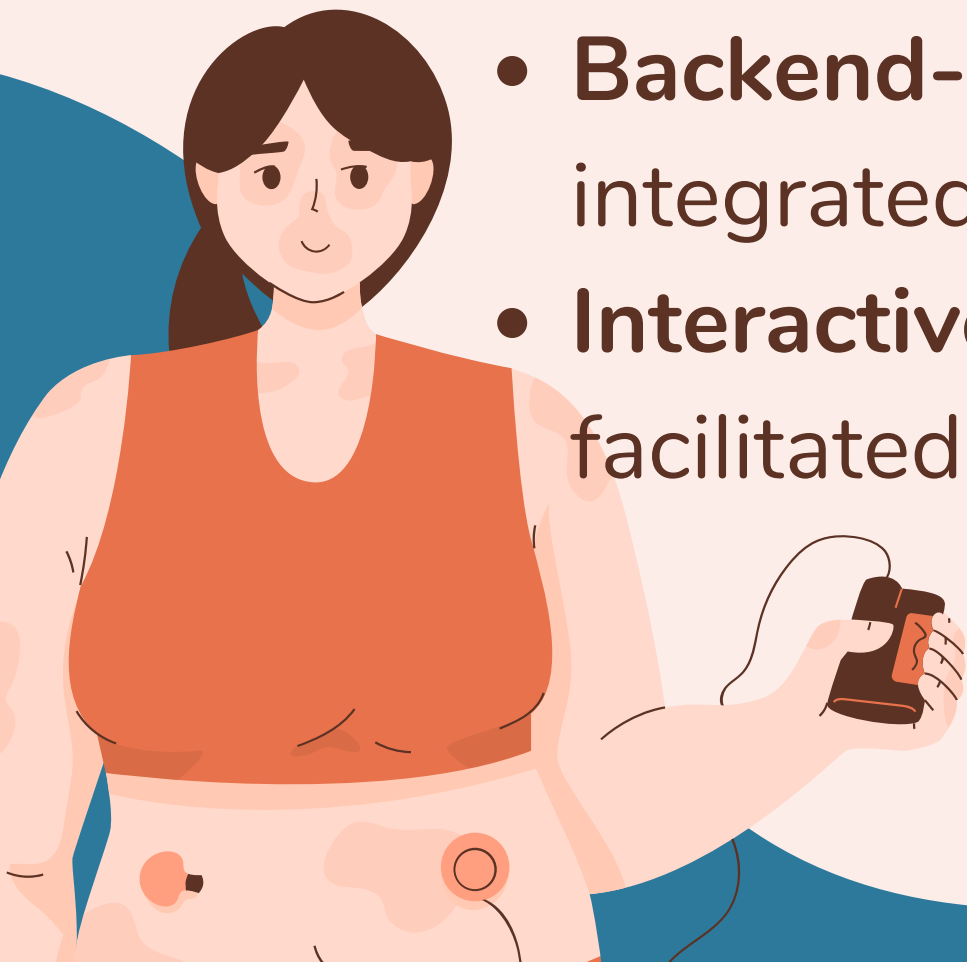
WOW FACTORS

- Our solution incorporates state-of-the-art machine learning algorithms that enable it to accurately detect diseases with unprecedented precision.
- Additionally, we have designed a user-friendly interface that makes our solution accessible to healthcare professionals and patients alike.
- This interface includes real-time analytics and visualizations that allow for quick and easy interpretation of results.

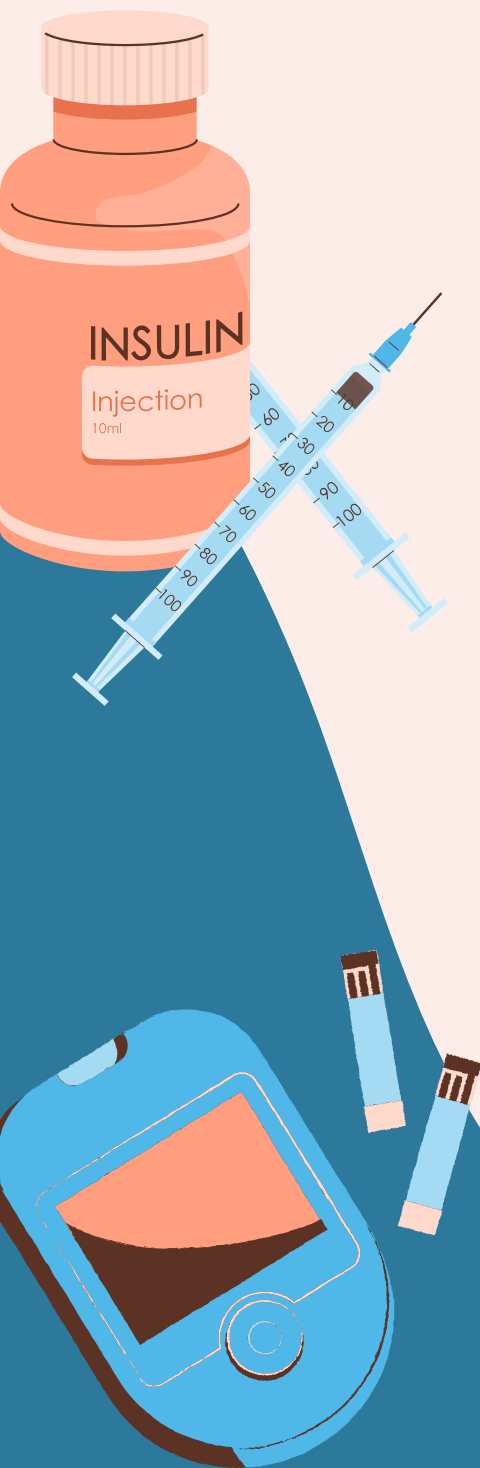


Here Is Solution!

- **Dataset Sourcing:** We accessed a Kaggle dataset, a treasure trove of diverse data, as the foundation of our project.
- **Model Crafting:** Leveraging Google Colab, we meticulously designed and trained predictive models, harnessing the dataset's potential.
- **Model Capturing:** Employing the efficiency of pickle, we saved our models, ensuring seamless retrieval and easy fusion across platforms.
- **Backend-Frontend Fusion:** Using Anaconda's Spyder, our project's backend integrated analytical prowess, harmonizing with frontend functionalities.
- **Interactive Display:** Streamlit, our frontend choice, brought the project to life. It facilitated user engagement, portraying results with intuitive ease.



DIABETES PREDICTION




MULTI-DISEASE PREDICTION FOR TOMMOROW'S WORLD

 **Diabetes Prediction**

 Lung cancer Prediction

 Parkinsons Prediction

 Chronic kidney disease

 Heart attack prediction

Diabetes Prediction using ML

Number of Pregnancies

6

Glucose Level

148

Blood Pressure value

72

Skin Thickness value

35

Insulin Level

0

BMI value

33.6

Diabetes Pedigree Function value

0.627

Age of the Person

50

Diabetes Test Result

ohh nooo !The person is diabetic Manage your diabetes ABCs. Follow your diabetes meal plan Make physical activity part of your routine. Take your medicine. Check your blood glucose levels Monitor your blood sugar.

LUNG CANCER PREDICTION



MULTI-DISEASE
PREDICTION FOR
TOMMOROW'S
WORLD

Diabetes Prediction

Lung cancer Prediction

Parkinsons Prediction

Chronic kidney disease

Heart attack prediction

Lung Cancer Prediction using ML

Gender

0

Age of the Person

59

Smoking

1

Yellow Fingers

1

Anxiety

1

Peer Pressure

2

Chronic Disease

1

Fatigue

2

Allergy

1

Wheezing

2

Alchol

1

Coughing

2

Shortness_of_breath

2

Swallowing difficulty

1

Chest pain

1

Lung Cancer Test Result

The person does not have lung cancer

PARKINSON'S DISEASE PREDICTION



MULTI-DISEASE PREDICTION FOR TOMMOROW'S WORLD

- Diabetes Prediction
- Lung cancer Prediction
- Parkinsons Prediction**
- Chronic kidney disease
- Heart attack prediction

Parkinson's Disease Prediction using ML

MDVP (Hz)	MDVP (Hz)	MDVP (Hz)	MDVP (%)	MDVP (Abs)
119.992	157.302	74.997	0.00784	0.00007
MDVP	MDVP	Jitter	MDVP	MDVP (dB)
0.0037	0.00554	0.01109	0.04374	0.426
Shimmer	Shimmer	MDVP	Shimmer	NHR
0.02182	0.0313	0.02971	0.06545	0.2211
HNR	RPDE	DFA	spread1	spread2
21.033	0.414783	0.815285	-4.81303	0.266482
D2	PPE			
2.301442	0.284654			

Parkinson's Test Result

The person has Parkinson's disease

CHRONIC KIDNEY DISEASE PREDICTION



MULTI-DISEASE PREDICTION FOR TOMMOROW'S WORLD

- Diabetes Prediction
- Lung cancer Prediction
- Parkinsons Prediction
- Chronic kidney disease**
- Heart attack prediction

Chronic kidney disease Prediction using ML

blood Pressuure	Sg	Al
80	1.02	1
Su	red blood cells	Bu
0	1	36
sc	Sod	Pot
1.2	137.53	4.63
Heamoglobin	Wbc	Rbcc
15.4	7800	5.2
htn		
1		

Chronic Kideny Test Result

The person has chances of chronic kidney disease

HEART ATTACK PREDICTION



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MULTI-DISEASE PREDICTION FOR TOMMOROW'S WORLD

⚡ Diabetes Prediction

🦠 Lung cancer Prediction

👤 Parkinsons Prediction

👁️ Chronic kidney disease

❤️ **Heart attack prediction**

Heart attack Prediction using ML

age

63

sex

1

cp

3

trtbps

145

chol

233

fbs

1

ecg

0

thalachh

150

exng

0

oldpeak

2.3

slp

0

caa

0

thall

1

heart attack Test Result

ohoo! you are in trouble! the person has higher chances of getting heart attack

Yup! We Learned

Team work & collaboration

Hackathon teamwork: Blend skills, communicate, respect ideas. Collaborate on tasks, innovate together. Success thrives when diverse strengths unite.

Presentation

Hackathon presentations: Be clear, concise. Structure content logically. Engage with enthusiasm. Showcase innovation, technical prowess. Address questions effectively, captivate audience.

Real world application

Hackathon's iterative development mirrors real-world adaptability. Refine prototypes based on feedback. Deliver effective, dynamic solutions for practical challenges.

