DEPARTMENT OF APEX INSTITUTE OF TECHNOLOGY

# PROJECTPROPOSAL

## Project Title: -

An Optimized Machine Learning-driven Patient's Sickness or Health Status Prediction System.

## Project Scope:-

The scope of a project for Health Status Detection is extensive and requires careful planning, execution, and evaluation. The goal of such a project is to improve healthcare outcomes by providing healthcare professionals with timely and accurate information on the health status of their patients, promoting early detection and treatment of diseases, and supporting personalized healthcare. In this article, we will discuss the various elements that can be included in the scope of a project for Health Status Detection.

Identification of Health Indicators:

The first step in developing a project for Health Status Detection is to identify the health indicators that will be monitored to determine the health status of the target population. These indicators may include vital signs such as blood pressure, heart rate, respiratory rate, and body temperature, laboratory results such as blood glucose levels, cholesterol levels, and kidney function tests, and medical history and lifestyle factors such as smoking, alcohol consumption, physical activity, and dietary habits.

Selection of Detection Tools:

The next step is to select the tools and technologies that will be used to collect data on the health indicators. These tools may include wearable devices such as smartwatches, fitness trackers, and sensors that can monitor vital signs, medical equipment such as blood glucose monitors and blood pressure cuffs, and mobile applications that can track lifestyle factors such as diet and exercise.

Evaluation Plan:

The project should include an evaluation plan that outlines how the effectiveness of the health status detection tools and technologies will be measured.

The evaluation plan should include metrics such as the number of patients who are using the tools, the frequency of data collection, and the impact of the tools on healthcare outcomes.

In conclusion, a project for Health Status Detection can have a significant impact on improving healthcare outcomes by providing healthcare professionals with timely and accurate information on the health status of their patients, promoting early detection and treatment of diseases, and supporting personalized healthcare. The scope of such a project should be carefully planned to ensure that it includes all the necessary elements, including identifying health indicators, selecting detection tools, managing data, implementing the tools, providing training, evaluating effectiveness, and ensuring privacy and security.

## 3. Requirements: -

* Hardware Requirements

1. Computer with specifications:
2. RAM : 8GB or higher
3. CPU : i5 7th gen or higher

* Software Requirements

1. Python 3.0 and associated libraries

2. Anaconda and Jupyter Notebook

**STUDENTS DETAILS**

|  |  |  |
| --- | --- | --- |
| **Name** | **UID** | **Signature** |
| Aryan Singh | 20BCS6677 |  |
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**APPROVAL AND AUTHORITY TO PROCEED**

We approve the project as described above, and authorize the team to proceed.

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| **Name** | **Title** | **Signature**  **(With Date)** |
| Priyanka Kaushik | Supervisor |  |