

**RISK ASSESS : A SYMPTOM-BASED DISEASE  
PREDICTOR**

**A PROJECT REPORT**

*Submitted by*

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*Under the guidance of*

**Mr. ARUN KUMAR S**

*in partial fulfillment for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**SCHOOL OF COMPUTER SCIENCE AND ENGINEERING**

**At**



**PRESIDENCY UNIVERSITY**

**BENGALURU**

**JANUARY 2024**

# PRESIDENCY UNIVERSITY

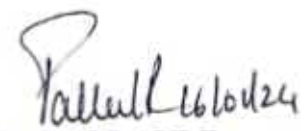
## SCHOOL OF COMPUTER SCIENCE & ENGINEERING

### CERTIFICATE


This is to certify that the Project report **“RISK ASSESS A SYMPTOMBASED DISEASE PREDICTOR”** being submitted by **“NIRANJANI K, HARSHA M, HARISH N G”** bearing roll number(s) **“20201CSE0514, 20201CSE0504, 20201CSE0521”** in partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.




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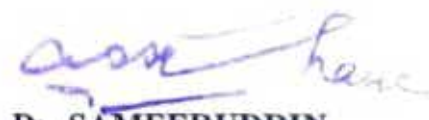
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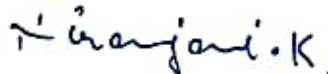




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**PRESIDENCY UNIVERSITY**  
**SCHOOL OF COMPUTER SCIENCE & ENGINEERING**

**DECLARATION**

We hereby declare that the work, which is being presented in the project report entitled **RISK ASSESS A SYMPTOM-BASED DISEASE PREDICTOR** in partial fulfillment for the award of Degree of **Bachelor of Technology in Computer Science and Engineering**, is a record of our investigations carried under the guidance of **Mr. Arun Kumar S, Assistant Professor, School of Computer Science and Engineering, Presidency University, Bengaluru**. We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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## **ABSTRACT**

The merging of state-of-data collection has led to remarkable improvements in the medical care sector recently. This paper offers "Risk Assess," a creative Flask web application that was meticulously designed. "Risk Assess" completes the step by using patient vitals to produce risk assessments. .

This web application, which is based in Python, employs various Machine Learning models, including K-Nearest Neighbor (KNN), Gaussian Naïve Bayes (NB), Linear Support Vector Machine (SVM), Classification and Regression (CART), and K-Nearest Neighbor (KNN), to analyze and create a model that predicts whether a given set of symptoms is indicative of a specific disease. Profoundly, "Risk Assess" improves comfort and functional productivity by calming down the forecast of heart disease, kidney disease, liver disease, diabetes, cancer, and other diseases. Our project features a reliable login page that enables users to create new accounts using their email addresses.

We prioritize security and customer satisfaction by requesting a login and secret key to be sent with their email. This study article highlights the critical role of machine learning and includes working engineering, plan standards, and execution complexity. "Risk Assess" embodies the application of machine learning and Python-based advancements, demonstrating the ability to make predictions based on symptoms using inventive computer configurations.

## ACKNOWLEDGEMENT

First of all, we indebted to the **GOD ALMIGHTY** for giving me an opportunity to excel in our efforts to complete this project on time.

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**NIRANJANI K**

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