CERVICAL CANCER PREDICTING SYSTEM USING MACHINE LEARNING

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DECLARATION

I declare that this is my own work and this thesis does not incorporate without acknowledgement any material previously submitted for a degree or diploma in any other University or Institute of higher learning and to the best of my knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text. I retain the right to use this content in whole or part in future works.

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The above candidate has carried out research for the Masters thesis under my supervision. I confirm that the declaration made above by the student is true and correct.

Name of the supervisor: Dr. Buddhika Karunarathne

Signature of the supervisor: Date:

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ABSTRACT

Machine Learning has become a vital tool in everyday life, as well as a potent tool for automating most of the industries we want to automate. Machine Learning is a method of developing algorithms that learn from data, which might be labelled, unlabelled or learned from the environment. Machine Learning is employed in a variety of industries, including health care, where it provides much greater benefits through a proper decision and prediction processes. Because the machine learning in health care is scientific research, we must save, retrieve, and properly use information and data, as well as give knowledge about the difficulties that face the healthcare industry and proper decision-making.

Over the years, these technologies have resulted in significant advancements in the health-care sector. Medical experts employ the machine learning tools and techniques to analyse medical data in order to identify hazards and provide accurate diagnosis and treatment.

The paper aims to build a web application and put a trained machine learning model into production using Flask API. Here use cancer data to predict cervical cancer using machine learning. Therefore this project helps to use machine learning models for end-users or systems.

Keywords: Machine learning, Flask API, Python, Web application

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LIST OF ABBREVIATIONS

Abbreviation	Description
RNN	Recurrent Neural Network
OCR	Optical Character Recognition
FRT	Facial Recognition Technology
RFE	Recursive Feature Elimination
LR	Logistic Regression
KNN	K-nearest neighbors