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Mid-Term Report of Final Year

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\documentclass{article}

\usepackage[utf8]{float}

\usepackage{graphicx}

\graphicspath{ {image/} }

\title{Mid-Term Report of Final Year}

\author{Xu Tian Hao }

\date{March 2021}

\begin{document}

\maketitle

\section{Abstract Introduction}

As soon as March 16th, a total of 81,078 cases of new coronary pneumonia have been diagnosed nationwide, and a total of 85,133 cases have been confirmed abroad. The number of confirmed cases abroad has exceeded that of domestic ones. It is an indisputable fact that the global epidemic of COVID-19 has been confirmed.

In this battlefield without gunpowder, the lethality of invisible warfare is far more impressive than naked combat. For example, the new crown pneumonia COVID-19 has a strong camouflage ability, and it is difficult for doctors on the frontline battlefield to "see" it at first glance. It is accurately distinguished from the flu.

First of all, influenza and COVID-19 are contagious and both can cause respiratory diseases. Typical flu symptoms include fever, cough, sore throat, sore limbs, headache, runny nose, nasal congestion, fatigue, and vomiting and diarrhea. The most common symptoms of new coronary pneumonia are fever, cough and shortness of breath, and 5

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Mid-Term Report of Final Year

Xu Tian Hao

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1 Abstract Introduction

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In other words, respiratory viruses cause similar symptoms, so it is difficult to distinguish COVID-19 from influenza by the symptoms themselves.

Can you help doctors discover the difference between COVID-19 and ordinary flu from the perspective of AI, and predict the infection and the degree of infection based on CT images? , On the data science competition platform Kaggle, there is already a COVID-19 patient data set. The data is updated every day, including the age of the patient, where the patient lives, when symptoms appeared, when they were exposed, when they entered the hospital, and so on.

2 Some possible solutions from the reference papers

2.1 Use a deep learning system to screen for COVID-19

This work aims to use deep learning technology to create an early screening model to use lung CT images to distinguish between COVID-19 pneumonia and influenza A virus pneumonia and healthy cases The author first used three deep

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