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1 | Page ACKNOWLEDGMENT

I want to thank Coventry University and Softwarica College of IT and Ecommerce for what they have done for me.

Also, I'd like to thank my supervisor, Mr. Manoj Shrestha, for his patience, direction, and help.

Your wide range of knowledge and careful editing has helped me a lot.

I'm very thankful that you accepted me as a student and kept believing in me.

2 | Page ABSTRACT

In response to the COVID-19 outbreak, the World Health Organization (WHO) made it a biosafety requirement for everyone to wear a face mask.

This has made it hard for current facial recognition systems to work, which is why this research was done.

This document talks about how a way was made to recognize people from pictures, even if they were wearing a mask.

A classification model is used that is based on the architecture of MobileNetV2 and the face detector of OpenCV.

Using these steps, it is possible to figure out where the face is and whether or not it is wearing a mask.

For instructing the facial recognition models, a set of 2000 observations is made, half of which have a face mask and the other half don't.

The test results show that there is a 99.99% chance of being able to tell if someone is wearing a mask or not.

Faces of five persons with masks are recognized with 99.25% accuracy, while faces of people without masks are recognized with 99.5% accuracy.

PROJECT RESEARCH PLAN

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