UNIVERSITI TEKNOLOGI MARA

COMPUTER VISION FOR ZOO ANIMALS USING YOLO ALGORITHM

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JANUARY 2022

STUDENT DECLARATION

I certify that this thesis and the project to which it refers is the product of my own work and that any idea or quotation from the work of other people, published or otherwise, are fully acknowledged in accordance with the standard referring practices of the discipline.

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JANUARY 29, 2021

ABSTRACT

Zoo has been one of the main tourism attraction for the past decades. For many years, there're always new innovation in all aspects of our daily life with the solve purpose of making things better and efficient for the masses. That is not the case with tourism in general however, especially the zoo industries. For years zoo are fine with being stagnant in which they had remain the same for the longest time, minor innovation here and there a sprinkled to make ths visitor experience better. However, the real innovation are in dier need. The pandemic however has shown us that it is not sustainable to remain static and stagnant. The tourism industry especially have been affected. This calls for a new innovation or a step into improvement. The approach that this paper is taking, is creating an automated system in which a computer is smart enough to detect animals. The applicability aspect of this approach are endless. This paper specifically, suggest that we create the model to improve the user experience while complying with the SOP for pandemics. The project will be using the Agile methodology which is an iteration approach to system development lifecycles instead of hard strict timeline with no versatility and costly backtracks. This this, You Only Look Once (YOLO) is used to create the convolutional neural network.

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