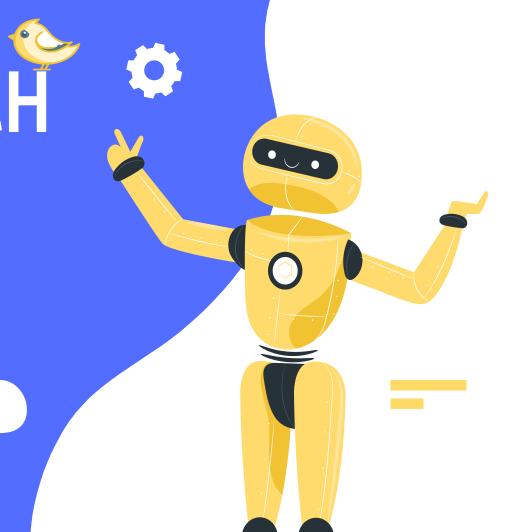
B1RDWATCH B0T

Emma-Claire McCarthy



OUTLINE



O1 THE LIVE STREAMED O2 COLLECTING NEST CAMERA DATA



O3 TRAINING A DEEP LEARNING MODEL

04 AUTOMATING REAL TIME CLASSIFICATION



DATASET ASSEMBLY

COLLECT NEST IMAGES

sources: YouTube channel, live stream



LABEL IMAGES BY EYE

adult bird / no adult bird



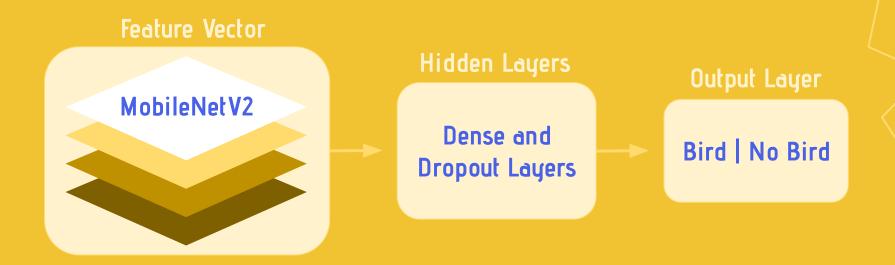
PARTITION LABELED IMAGES

train, validation, and test





BIRD CLASSIFICATION USING DEEP LEARNING

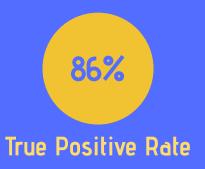






MODEL PERFORMANCE ON UNSEEN IMAGES







Automated 24-Hour Nest Monitoring



Google Cloud Platform Virtual Machine



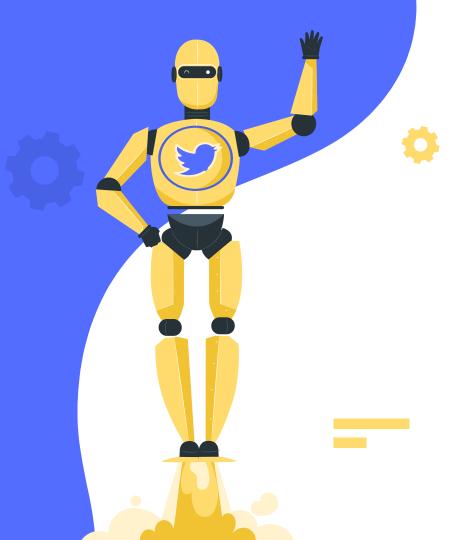
Built with Selenium

CNN built with Keros

Postgresql with remote access enabled

COMING SOON:

A Twitter bot that tweets about the coming and going of the Nottingham falcon.



THANKS

Questions?



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