

Deep Learning

Assignment



Session-Spring-25

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Section: BSCS-VII-C

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Action Recognition using CNN and LSTM and Web Applications:

Below are some sample images that were given to the model and their results:

ActionSense AI



CNN + LSTM Model

Intelligence Output

DETECTED ACTION

Ski

Model Confidence 93.9%

DETECTED REGIONS

Caption A skier is skiing down a snowy hill.

Prediction 1 Ski (93.9% confidence)

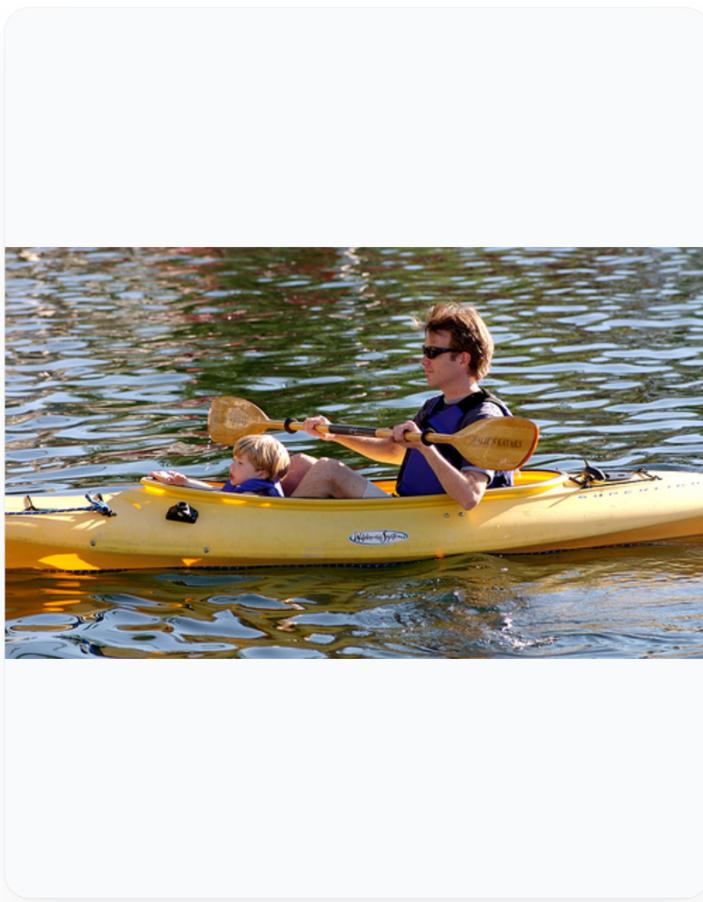
Prediction 2 Snowmobile (2.4% confidence)

Prediction 3 Alp (0.4% confidence)



ActionSense AI

CNN + LSTM Model



Intelligence Output

DETECTED ACTION

Canoe

Model Confidence

58.5%

DETECTED REGIONS

Caption A man and a woman are sitting on a raft in.

Prediction 1 Canoe (58.5% confidence)

Prediction 2 Paddle (28.2% confidence)

Prediction 3 Speedboat (1.0% confidence)



ActionSense AI

CNN + LSTM Model



Intelligence Output

DETECTED ACTION

Climbing

Model Confidence

49.2%

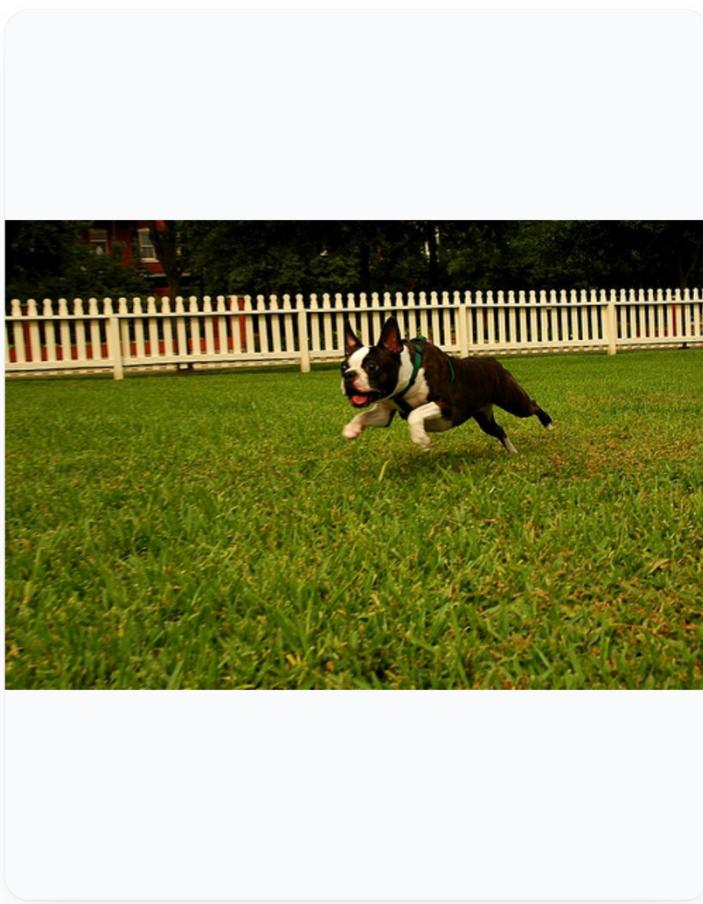
DETECTED REGIONS

Caption A man in a red jacket climbs a snowy hill.

Prediction 1 Climbing (49.2% confidence)

Prediction 2 Swing (10.5% confidence)

Prediction 3 Snowmobile (2.0% confidence)

 Intelligence Output DETECTED ACTION

Running English Springer

Model Confidence

79.1%

 DETECTED REGIONS

 Caption A black and white dog is running through the grass.

 Prediction 1 English Springer (79.1% confidence)

 Prediction 2 Standard Poodle (3.5% confidence)

 Prediction 3 Border Collie (3.2% confidence)



ActionSense AI

CNN + LSTM Model



Intelligence Output

DETECTED ACTION

Playing Baseball

Model Confidence

28.5%

DETECTED REGIONS

Caption A baseball player in a white uniform is playing baseball.

Prediction 1 Baseball (28.5% confidence)

Prediction 2 Ballplayer (25.8% confidence)

Prediction 3 Mountain Bike (5.0% confidence)

THE END
