Treeleaf AI Challenge 2020

Message

Treeleaf is an innovative tech company that specializes in AI for the advancement of the human race. We see a world where technology enhances human potential and helps it to set foot into a new era of intelligence. Treeleaf is about to embark on yet another year of adventure, possibilities, and opportunities and we are more than pleased to have you on this course with us, which is why on the occasion of Treeleaf's 5th anniversary, the company has decided to host the Treeleaf AI Challenge. Such challenges will be held annually on Dec 5th with attractive prizes for the winners. Do not miss out on this incredible event to showcase your skills and work with our distinguished teams.

Challenge Description

Face liveness helps to differentiate the feature space into 'live' and 'not-live' objects, forging the need for the users to be physically present to access their accounts. The objective of this challenge is to detect if the face in front of the camera belongs to a live person or not. It should detect liveness against printed-photo attach, replay attack, and 3-D mask attack. The result should contain a confidence score of liveness [0-1] for the given image. You can ignore non-face images. Also, all the closed-eye faces are not-live. The minimum project submission accuracy is 90%.

Datasets

Public Datasets:

Unless otherwise expressly stated on the Competition rules, Participants can use publicly available datasets other than their custom-built data to develop and test their models and submissions, as long as the legal use of the dataset being used is not violated. Dataset owners reserve the copyrights of such public datasets, violation of which will not be Treeleaf's responsibility.

Custom-built Datasets:
If your dataset is custom-built, upload the zipped folder of your dataset in some cloud storage (google drive, dropbox, etc) and share the link with all access rights. Please clearly describe the dataset in the README of the project root.

Evaluation

The model evaluation result should have the validation and test loss and accuracy for each experiment and improvements. Evaluation results should also contain the average performance (time taken to predict the given image or video frames) for test data to check the real-time behavior of the model.

Steps for Submission

Share your submission along with the project source and evaluation report to info@treeleaf.ai. You can create a Github repo(private) and add info@treeleaf.ai to access it. The project source must contain a README file describing the steps for running your project and evaluating it. Evaluation report must be in the project root with the evaluation results described in the Evaluation section.

Competition Timeline

Start Date: 2020/12/05

Submission Deadline Date: 2021/03/01

Prize

- No of winner: 1
- Cash prize: Rs. 35000/-
- Job opportunity at Treeleaf technologies as a Software engineer, Machine Learning
- Certificate from Treeleaf Technologies Pvt Ltd

Rules

Eligibility

- Can be fresh graduate students or pursuing their undergraduate degree
- The task should be performed individually not in a group
- Shouldn't have professional experience

One account per participant

- Participants must log from one account from which their solution is to be submitted.

Team Limits

- This challenge is to be submitted individually. Hence, there will be no team. Only a single participant can register for the competition from a single account. Use of multiple accounts is strictly prohibited. If the use of multiple accounts is found, the entry will be disqualified immediately.

No private sharing outside teams

- Privately sharing code or data outside of teams is not permitted.

INTELLECTUAL PROPERTY

DATA

'Data' means the data or datasets for use by participants in the competition. Participants must use the data only as permitted by these competition rules and any associated data use rules as specified.

Unless otherwise permitted by the terms of the competition rules, Participants must use the data solely for the purpose and duration of the competition, including but not limited to reading and learning from the data, analyzing the data, modifying the data, and generally preparing your submission and any underlying models. Participants agree to use suitable measures to prevent persons who have not formally agreed to these competition rules from gaining access to the data and agree not to transmit, duplicate, publish, redistribute or otherwise provide or make available the data to any party not participating in the competition. Participants agree to notify Treeleaf immediately upon learning of any possible unauthorized transmission or unauthorized access of the data and agree to work with Treeleaf to rectify any unauthorized transmission. Participants agree that participation in the competition shall not be construed as having or being granted a license (expressly, by implication, estoppel, or otherwise) under, or any right of ownership in, any of the data.

CODE SHARING

Participants are prohibited from privately sharing source or executable code developed in connection with or based upon the data, and any such sharing is a breach of these competition rules and may result in disqualification.

Participants are permitted to publicly share source or executable code developed in connection with or based upon the data, or otherwise relevant to the competition, provided that such sharing does not violate the intellectual property rights of any third party.

WINNER LICENSE:

This states that you will hereby grant and will grant Treeleaf Technology Pvt Ltd. the license(s) concerning your submission if you are a competition winner. The winning solution and its corresponding code/scripts/notebooks cannot be shared publicly on any platform. Treeleaf Technologies is under no obligation to limit the use of submitted codes, datasets, and models commercially.

PARTICIPANT WARRANTIES AND OBLIGATIONS

By registering, you agree that (a) your account is complete, correct, and accurate and (b) your registration may be rejected or terminated and all entries submitted by you may be disqualified if any of the information in your account is incomplete, incorrect or inaccurate. You are solely responsible for your account.

I HAVE READ AND UNDERSTOOD ALL THE TERMS AND CONDITIONS LAID
IN THIS CONTRACT AND HEREBY ACCEPT ALL OF THEM. MY SIGNATURE
MEANS THAT I AGREE WITH THE RULE MENTIONED ABOVE.

PARTICIPANT NAME :

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PARTICIPANT SIGNATURE :

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DATE :

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