Deakin Simpsons Al CHALLENGE 2023

Webinar on Tuesday, May 16th

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Outline



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- About the task
- Timeline
- Eligibility
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- Benefit
- How to participate?
- Questions

What is the Deakin Simpsons Challenge 2023?



A computer vision competition for which the goal is:



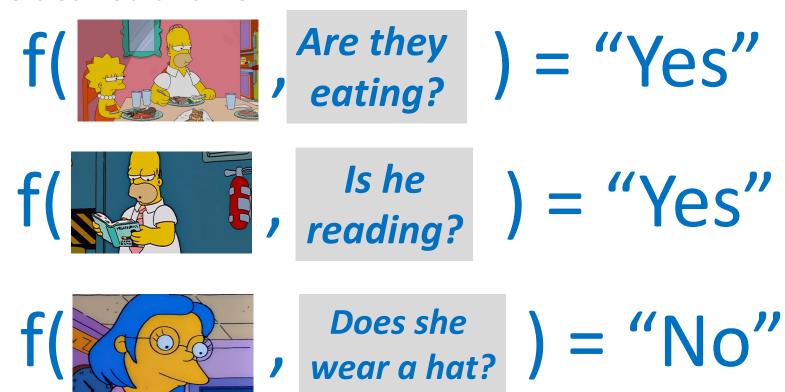
- The challenge is designed to:
 - Provide the opportunity to work as team members
 - Compete against each other
 - Enhance your learning experience by improving your AI modeling, problem-solving, and team-working skills
- Designed with the same norms as any challenge organized in a top-tier AI conference



What do you have to do? The machine learning framework

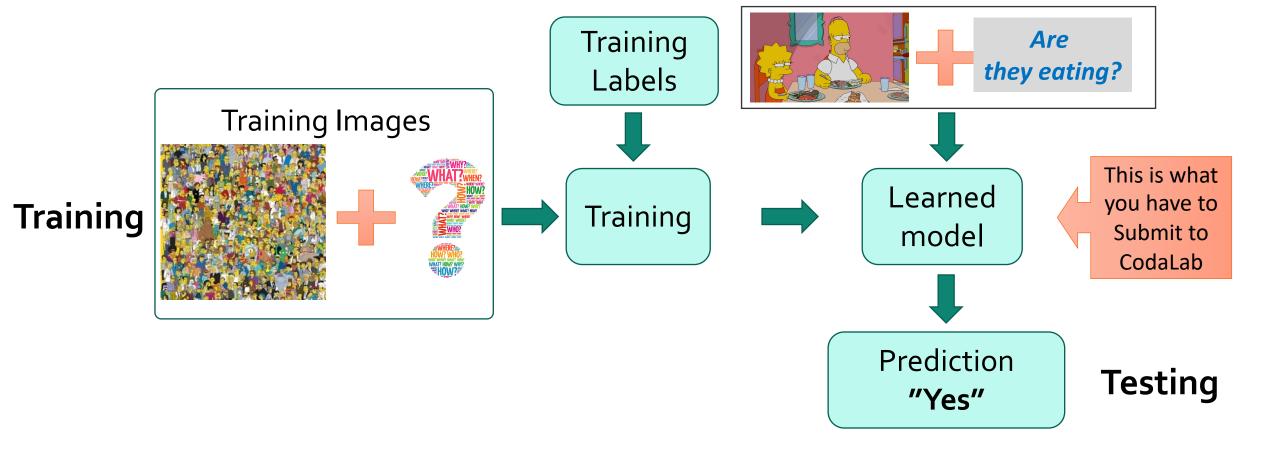


• Apply a prediction function to an image and a natural language question to get the desired answer:



What do you have to do? Steps





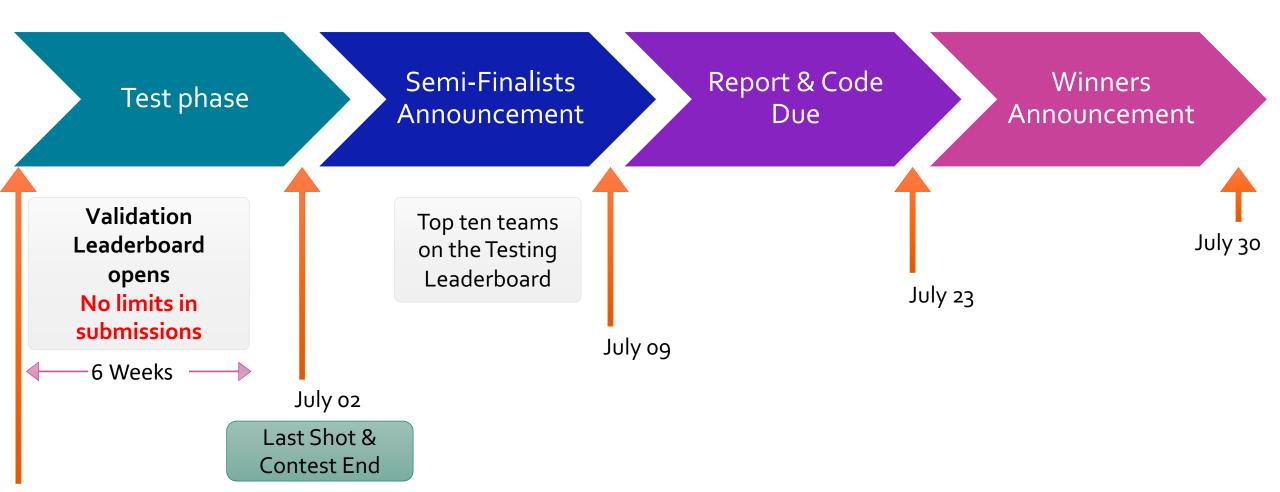


The performance is evaluated

using the Accuracy!

Timeline





May 16

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Test sets



- Test phase
 - 50% of Yes/No <questions, image> pairs
- Images in the test sets are collected and labeled from TV show episodes

You never have access to the images in the test sets!
Only CodaLab does!

Eligibility



- All participants need to be enrolled in a course at Deakin
- The semi-finalists are required to:
 - Submit a report, which describes the solution
 - Provide a link of the Github repo of the solution
 - The submitted codes and reports may be inspected to check the validity of the solution!

Prizes and Sponsors







Deakin University School of Information Technology

Award for

1st Prize Winners of the Deakin SIMPSONS AI Challenge 2021

Presented to

John Doe, Dale Nixon, and **Karen Eliot**

in recognition for their excellent achievement

XX June 2021

Funded by Community Bank at Deakin University

Lecturer, School of Information Technology

Professor John Yearwood

Head, School of Information Technology

deakin.edu.au

Why should you participate?



- The school official award that will be given to you provides an invaluable recognition for your achievement
 - An award is critical when you apply for a job or a PhD scholarship!
- The perfect place to learn best practices in AI, accrue feedback on your work, and augment your skills
- A channel for problem-solving and brainstorming
- An opportunity to push boundaries and encourage creativity
- The experience you get is invaluable in preparing you to understand what goes into finding feasible solutions for big data

How to participate?



- Register to the CodaLab platform, then register to the competition on CodaLab
- You can participate individually or in a team
 - There cannot be more than 3 students in a team
 - To find team members or join a team, you can post a message on the discussion forum
 - Once you have built your team, the team leader needs to contact me and provides:
 - O Names, CodaLab usernames, the Deakin course in which they are enrolled, and the name of the team



All you need is a Google

account to use Google Colab!



Demo

Things to try



- Label your own data from tv show episodes
 - A dataset of images is already provided
- Make the model deep
- Try data augmentation
- Try pre-trained models, e.g., VGG16/19, MobileNet, ResNet, etc.
- Try to tune hyper parameters on the validation set, e.g., learning rate, dropout value, L2 reg, etc.
- Do something different!



Wish you all the best!

Questions?