Company Name : Cactus Communications

# of tracks you are sponsoring : 1

Prize Money amount details you will be sponsoring for each track: INR 25K

- **Winner :** INR 15K
- **First runner up :** INR 10K
- **Second runner up (optional) :** If there is a tie or two runner ups then both runner ups will get 5K each i.e splitting the 10K amount.
- **Consolation prize (optional) : -**

Track Name : Academic Research Remix

Website(s) –
https://aisolutions.cactusglobal.com/
https://mindthegraph.com

Logo(s) –

Problem Statement (s) –
A team should basically choose and work on only 1 type of generation only for the hackathon, whichever you are comfortable with w.r.t tech stack (Computer Vision, Speech or NLP)

Paper to X

   Description –

We are basically looking to build a tool that can generate a lot of new age alt-form content from a research paper as input. You can either build 1 out of the 3 mentioned but build it with as many nuances and user level input customizations as you can think about.

Input – A Research Paper/ multiple papers
Output(s)

- PPT (Presentation)
    - Formal ones (like conference presentation)
    - Explainer fun ones (for wider audience)
- Podcast
    - short form, long form, multilingual, human-like audio conversation
    - Example - NotebookLM
- Graphical Abstract
    - https://mindthegraph.com/blog/what-is-graphical-abstract/
    - https://mindthegraph.com/create-graphical-abstract/
- Video
    - Reel like learning (less than a minute)– GenZ trending
    - Explainer Youtube video (less than 5 minutes) References like -
        - Journalclub.io (ref video)
        - 2 minute papers (link)
        - 3Blue1Brown like with math animation

Deliverable – API demo with input and output files or workbench like UI where you can input the research paper(s) and get output as any of the variants.

References –
Google Illuminate - https://www.youtube.com/watch?v=59bU5zrgPkc
There is an AI for That - https://theresanaiforthat.com/s/graphical+abstract+generator/
Video Generator overview - https://www.synthesia.io/post/best-ai-video-generators
https://paperswithcode.com/task/text-to-video-generation

Note - During the hackathon, try to evaluate and build things fast, make sure you are understanding the nuances of how to convert a research paper into any format. Even if final product is not great, intermediate steps identification and partial automation is also evaluated with equal weightage to running end product.

Sidenote: Brownie points and potential to get shortlisted for internship by registering and using Paperpal and Rdiscovery (with gen AI based Ask RDiscovery) on web and chrome store, looking at the existing features and giving suggestion/feedback on overall product and discussing about how the hackathon projects can fit into the product(s) while presenting/talking with mentors :D

Mentor Details :

1) **KrishnaKumar Mishra,** Manager, ML, Cactus Communications
- **Linkedin –** https://www.linkedin.com/in/krishnakumar-mishra-a03278b9/

2) **Kunal Sawhney, Senior Manager, Engineering, Cactus Communications**
- **Linkedin -** https://www.linkedin.com/in/kunal-sawhney-607aa3bb/

3) **Bhargav Modha,** Machine Learning Engineer, Cactus Communications
- **Linkedin -** https://www.linkedin.com/in/bhargav-modha/

4) **Chaitanya Malhotra,** Software Engineer**,** Cactus Communications
- **Linkedin -** https://www.linkedin.com/in/chaitanya-malhotra-05973013b/

5) **Fenil Ramoliya,** ML Intern, Cactus Communications
- **Linkedin -** https://www.linkedin.com/in/fenilramoliya210/

6) **Ritik Malik,** Software Engineer**,** Cactus Communications
- **Linkedin -** https://www.linkedin.com/in/ritik-malik-406

7) **Parth Agrawal,** Associate Director, ML and AI, Cactus Communications
- **Linkedin -** https://www.linkedin.com/in/htrap94/
- **Availability of mentor –** On discord messages, will be travelling but helping out with queries async as much as possible

Evaluation Details :
- Evaluation will be done based on
    - How aesthetically and logically correct any form of alt media is generate (30%)
    - Working demo (30%)
    - Presentation and Engagement with Mentor(s) (20%)
    - Tech Scalability (20%)

Signature: Parth Agrawal, Cactus Communications