



REAL WORLD AI Bootcamp & Hackathon

Challenge 1: AI Story to Video Creator

Challenge Overview:

In this hackathon, your task is to develop an AI-powered application that transforms written stories for kids into engaging videos. The application should take a story in text format as input (700-1500 words) and generate a captivating video as output, designed to enhance children's engagement and learning. The final video should include:

1. Voice-over narration: AI-generated or user-uploaded voice reading the story. The text can be that of the given story or repurposed by your tool automatically for a video format.
2. Background music: Add appropriate music to set the tone and mood for the story.
3. Captions: Display the story text on the screen in sync with the narration, encouraging reading.
4. Animation with images: AI should visualise key moments in the story through animated illustrations, motion graphics or relevant images.

The output can be one or more videos. It can also be an editable video which the human can adjust on preference either in your own tool or an open source video editing tool.

Example Applications:

1. Storybook to Video Converter: A parent inputs a bedtime story, and the AI generates a fully animated video with a soothing voice-over, appropriate music, and text captions.
2. Interactive Learning Tool: Teachers input educational stories, and the app creates an animated video that children can watch, read, and listen to for a multi-sensory learning experience.

Example:

2 sample stories are [attached](#) with the stories transcript and created videos. Both are in Hindi but you can consider both Hindi and English and even other languages.

Expectations:

- Create a seamless pipeline from text input to video output.
- Focus on creating child-friendly content with easy-to-understand visuals, clear narration, and engaging storytelling.
- Ensure the videos are short and concise (e.g., 2-5 minutes) to cater to the attention span of children.

Submission:

1. Provide a URL, where we can put a story in a text box and there is a download link for the generated video.
2. A 10-12 slide presentation OR a 2 page document on the approach taken.
3. The code should be uploaded on Github (public/private) and access to it must be shared.

Judging Criteria:

- We will generate up to 5 videos using your tool and measure quality. Parameters of quality:
- User Experience: Is the interface simple and intuitive for both parents and children?
- Correctness: Are the images/animation/graphics correct as per narration
- Seamlessness: Does the video feel seamless or a cut-paste of stylistically different elements.
- Creativity: How much has the video enhanced the story by using interesting and creative ideas.
- Engagement: How well does the application keep children engaged with the story through visuals, voice, and music?
- Diversity and fairness: How well does the video depict cultural diversity.

The decision of the jury will be final.

Get Ready to Build the Future of Storytelling!

Challenge 2 : AI Teaching Assistant for Kids

Challenge Overview:

This hackathon invites AI product builders to create an AI-powered teaching assistant designed to support teachers and parents in educating children aged 4 to 11. The goal is to develop an application that enhances the teaching process by automating routine tasks, generating educational content, and providing interactive learning tools. The AI assistant should help tutors or parents focus on personalised learning while the AI handles tasks like assignment creation, content generation, and feedback.

Use Cases:**1. Assignment Creation:**

The AI should be able to analyse a picture of an assignment or question and generate new, similar-level assignments for the child. For example, if a parent or teacher uploads a maths worksheet, the AI creates a new worksheet with similar difficulty and learning objectives, ensuring variety while reinforcing concepts.

2. Answer Removal for Reuse:

The AI should be able to take a picture of a completed assignment or solved question (e.g., fill-in-the-blanks, multiple-choice, or matching) and erase the answers, making it ready for reuse. This feature allows parents and teachers to create new practice opportunities using the same materials but without revealing the solutions.

3. Link to Relevant Educational Videos:

The AI should be able to suggest or link to educational videos that help children understand complex concepts in subjects like science, history, math, and more. For example, after scanning a science worksheet, the AI can recommend age-appropriate videos explaining related concepts such as photosynthesis, historical events, or mathematical principles.

4. Interactive Educational Games and Quizzes:

The AI could help generate interactive quizzes and learning games based on specific subjects or topics. For example, it could create an interactive “matching the following” quiz from a traditional printed worksheet, turning static exercises into dynamic learning activities.

You may think of more use cases of routine tasks or exercise generation which can be useful for kids and include. The app may use textual/audio/video features.

Samples:

[Sample assignments](#) have been provided here for different subjects.

Submission:

4. Provide an apk to install on an Android phone to start using the app..
5. A 10-12 slide presentation OR a 2 page document on the approach taken.
6. The code should be uploaded on Github (public/private) and access to it must be shared.

Judging Criteria:

The major focus for this app will be ease of usability (UI/UX/flows), number of routine tasks that the app automates, and creative solutioning.

- User Experience: Is the application intuitive and user-friendly for both parents and teachers?
- Correctness: How well does AI do the task? Are the questions really of the difficulty as the uploaded worksheet? Is the content prescribed relevant?
- Innovation: How effectively does the AI assist in teaching, and how innovative are the proposed solutions for teachers and parents? Have you thought of new use cases than we conceived of?
- Scalability: Can the solution handle various subjects and levels of difficulty across different age groups?

Create the Future of AI-Assisted Learning for Kids!

PFA links for new registration and submission for the challenges :

Registration: <https://forms.gle/U87q4jUcp2w7rRVR9>

Submission: <https://forms.gle/n5ZoYBBCe1QVEejY8>