

Welcome to the Rayv “Code-o-Tron 3000” Virtual Hackathon! 🚀

Hey, you brilliant code commanders and AI alchemists! Buckle up for the wildest virtual hackathon this side of the multiverse, powered by the fine folks at Rayv. We’re unleashing the **Code-o-Tron 3000**, a 7-day showdown where your brainpower meets our bonkers challenges. Two epic problem statements, a vault of prizes, and enough coding chaos to make your circuits sing – let’s roll! Inspired by the Kaggle legends (looking at you, Titanic survival wizards), we’ve crafted a hackathon that’s equal parts fun, fierce, and fabulous. Ready to blast off?

Hackathon Details

- **Event Name:** Rayv Code-o-Tron 3000
- **Duration:** 7 glorious days – 168 hours of pure coding mayhem!
- **Format:** 100% virtual – hack from your lair, hammock, or hovercraft!
- **Prizes: Exact cash prizes to be declared during the hackathon**
 - **1st Place:** – Gold to fuel your next galactic breakthrough!
 - **2nd Place:** – Silver shines brighter with this haul!
 - **3rd Place:** – Bronze, but make it bling!
- **Team Size:** 1–4 masterminds – lone wolves or cosmic crews, your call!
- **Submission Deadline:** Exactly 7 days from the starting bell, 11:59 PM UTC (we’ll announce the kickoff soon!).
- **Judging:** Scored on ingenuity, execution, scalability, and that “holy cow, that’s cool” vibe!

Problem Statements – Choose Your Epic Adventure!

We’ve cooked up two quests that’ll test your AI prowess. Pick one, slay it, and claim your spot in the hall of fame!

1. Develop AI Models for Video Content Moderation

Lights, camera, *algorithm*! The internet’s a wild west of videos, and we need your sheriff-level skills to tame it. Build an AI model that sniffs out dodgy content – violence, spam, or that one clip of a dancing foot that’s just *wrong*. Real-time detection? Yes, please! Bonus points for a demo that makes us go, “Whoa, that’s slick!” Think of it like Kaggle’s Titanic challenge, but instead of predicting survivors, you’re saving the web from cringe.

- **Goal:** Flag “unsafe” videos with at least 85% accuracy.
- **Stretch Goal:** Add a confidence score and category tags (e.g., “spam,” “violence”).

2. Develop a Recommendation Engine to Target Rewards Based on User Persona

Why does your cousin get free tacos while you’re stuck with a discount on socks? Let’s fix that nonsense! Create a recommendation engine that reads user personas like a psychic – age, hobbies, how much they doomscroll – and serves up rewards they’ll actually love. We want precision, pizzazz, and a system that screams “I get you!” Think Kaggle’s predictive magic, but for showering users with goodies.

- **Goal:** Match rewards to personas with at least 80% user satisfaction (simulated).
- **Stretch Goal:** Suggest reward tiers (e.g., “basic,” “premium”) based on activity.

Rules and Regulations – The Sacred Code-o-Tron Commandments

No ambiguity here – just clear, playful rules to keep the galaxy spinning smoothly:

1. **Who Can Play:** Anyone with a keyboard and a dream – coders, tinkerers, and extraterrestrials welcome! No age caps, just mad skills.
2. **Team Vibes:** Solo or squads of 2–4. Register your crew upfront – no mid-hackathon mutinies allowed!
3. **Fresh Code Only:** Start from scratch when the clock ticks. Pre-trained models? Fine, but remix them into something new and cite your sources like a pro.
4. **Tech Freedom:** Any language (Python, Rust, Klingon – you do you), any framework, any open-source library. Just don’t crash the internet!
5. **Submission Specs:**
 - Push your masterpiece to a GitHub repo (public or private – we’ll send a submission link).
 - Deliverables:
 - **Source Code:** Clean, commented, and ready to rumble.
 - **README:** Step-by-step setup guide (don’t leave us guessing!).
 - **Video Demo:** 3–5 minutes of your model strutting its stuff – think infomercial energy!
 - **Write-Up:** 500 words max on your approach, challenges, and why it’s awesome.
6. **Datasets:** Use our starter packs (below) and spice things up with web or X-sourced data – just keep it legal and credit your haul!
7. **Judging Breakdown:**
 - **Creativity (30%):** Did you reinvent the wheel or invent a jetpack?
 - **Functionality (30%):** Does it run smoother than a buttered asteroid?
 - **Scalability (20%):** Could it handle a billion users without melting?
 - **Presentation (20%):** Did your demo make us spill our space coffee in awe?
8. **Fair Play:** No copying, no hacking rivals, no summoning AI overlords. Cheaters get zapped into the void!
9. **Time’s Ticking:** 7 days flat – no extra lives, so plan like a Time Lord!

Test Datasets – Your Code-o-Tron Toolkit

We’re tossing you the keys to victory with datasets that’d make Kaggle jealous. Grab ‘em, tweak ‘em, and let the magic happen!

For Problem 1: Video Content Moderation

- **Dataset Name:** VideoModLite v1.0
- **What’s Inside:** 1,000 video clips (5–30 seconds each) with a metadata CSV.
- **File Formats:** MP4 videos + CSV table
- **CSV Columns:**
 - **video_id:** Unique string (e.g., “vid_001”)

- duration: Seconds (e.g., 12.5)
- category: String (e.g., “comedy,” “sports”)
- label: “safe” or “unsafe”
- notes: Optional hints (e.g., “flashing lights”)
- **Download:** 📁

For Problem 2: Recommendation Engine

- **Dataset Name:** UserRewardSim v1.0
- **What’s Inside:** Persona data for 10,000 fictional users in a CSV.
- **CSV Columns:**
 - user_id: Unique string (e.g., “usr_123”)
 - age_group: String (e.g., “18-24”)
 - interests: Comma-separated (e.g., “gaming, travel”)
 - activity_score: Integer 0–100
 - past_rewards: String (e.g., “coupon, gift card”)
- **Download:** 📁

Pro Tip: Scour the web or X for extra data – just don’t break any laws or summon the data police!

How to Join the Code-o-Tron 3000

1. **Sign Up:** Register your team via <https://forms.gle/pSZGRCy8f1VUuHyd9>
2. **Grab Datasets:** Post-registration, snag the ZIPs or Google Drive links from your welcome email.
3. **Hack Like Crazy:** April 8th 2025 - April 15th 2025 @ 11:59PM IST – 7 days of non-stop brilliance!
4. **Submit:** Push to GitHub and send us the repo link by 11:59 PM IST on April 15th 2025 in your team whatsapp group

Why You Can’t Miss This

The Code-o-Tron 3000 isn’t just a hackathon – it’s your ticket to glory! Cash prizes, swag that’ll make your friends jealous, and a chance to flex for Rayv’s tech titans. Whether you’re wrangling rogue videos or crafting reward magic, you’re shaping the future with every keystroke. So rally your posse, polish your algorithms, and let’s make this the hackathon of legends!

Got questions? Tag us in your team's whatsapp groups and we will answer it.

Dataset for Problem 1: Video Content Moderation

Dataset Name: VideoModLite v1.0

Description: A collection of metadata for 1,000 video clips (imagine these as MP4s in your mind's eye). Below is a sample of the CSV – I'll give you 10 rows to start, but you can scale it up to 1,000 by repeating patterns or adding your own flair!

Sample CSV: [VideoModLite.csv](#)

Dataset Details

- **Columns:**
 - video_id: Unique string identifier (e.g., "vid_001" to "vid_1000").
 - duration: Float, video length in seconds (5.0–30.0).
 - category: String, genre like "comedy," "sports," "news," etc.
 - label: String, "safe" or "unsafe" (50/50 split for balance).
 - notes: Optional string, quirky hints about the content.
- **Full Size:** Imagine 1,000 rows, ~500 MB if paired with MP4s (you'd need to source or simulate videos separately).
- **How to Expand:** Keep the video_id sequential, randomize durations (5–30), mix categories, and sprinkle "safe"/"unsafe" labels with wild notes like "Alien invasion prank" or "Boring spreadsheet tutorial."

Pro Tip: For the "video" part, grab royalty-free clips from sites like Pexels or simulate with placeholders – Rayv won't mind as long as your AI rocks!

Dataset for Problem 2: Recommendation Engine

Dataset Name: UserRewardSim v1.0

Description: Synthetic user data for 10,000 personas (think of them as your quirky test subjects). Here's a 10-row sample of the CSV – scale it up to 10,000 by repeating or tweaking as you see fit!

Sample CSV: [UserRewardSim.csv](#)

Dataset Details

- **Columns:**
 - user_id: Unique string identifier (e.g., "usr_001" to "usr_10000").
 - age_group: String, buckets like "18-24," "25-34," "35-44," "45-54," "55+".
 - interests: Comma-separated string, 1–3 hobbies (e.g., "gaming," "travel").
 - activity_score: Integer, 0–100 (how active they are online).
 - past_rewards: Comma-separated string, 1–2 rewards they've snagged.
- **Full Size:** Imagine 10,000 rows, ~10 MB as a CSV.
- **How to Expand:** Sequential user_id, random age groups (weighted toward 18-34 for fun), mix interests from a pool (e.g., "gaming, travel, food, sports, music, animals, DIY, movies, news, dance, books"), vary activity_score (more 50–100 than 0–50), and pair rewards like "coupon," "free trial," "gift card," etc.

Pro Tip: Add your own twist – maybe a user obsessed with “knitting, aliens” who’s earned a “UFO sticker” reward!

How to Use These Datasets

1. **Copy & Paste:** Dump these samples into VideoModLite.csv and UserRewardSim.csv using a text editor or spreadsheet tool.
 2. **Scale Up:** Write a quick script (Python’s pandas or random libraries are your pals) to generate 1,000 or 10,000 rows based on the patterns above.
 3. **Pair with Videos (Problem 1):** For the moderation task, you’d ideally link each row to an MP4. Since I can’t provide those, snag free clips online or mock it with dummy files.
 4. **Test Your Model:** Use these as your training/testing sets and let your AI loose!
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