

StreamAI: Revolutionizing Streamer Content Creation

Presented by LiveMontageHack-Vultr Team

For the "Raise Your Hack" Hackathon.



The Streamer's Struggle: A Content Creation Bottleneck

Streamers face significant hurdles that hinder content output and audience growth. Manually managing recordings, editing, and optimization is incredibly time-consuming, pulling focus from live engagement.



Manual Recording & Editing

Tedious, labor-intensive post-production eats up valuable time.



Lack of Subtitles

Missing accessibility features limit audience reach and engagement.



Time-Consuming Uploads

Optimizing descriptions and managing multiple platforms is a manual chore.

StreamAI: Your Automated Content Co-Pilot

StreamAI is an AI-powered web application designed to automate the entire content creation workflow for streamers, from recording to publishing.



Automated Stream Capture

Records live streams effortlessly in the background.



Intelligent Highlight Editing

AI identifies and compiles the most engaging moments automatically.



Dynamic Subtitle Generation

Ensures content is accessible and enhances viewer engagement.



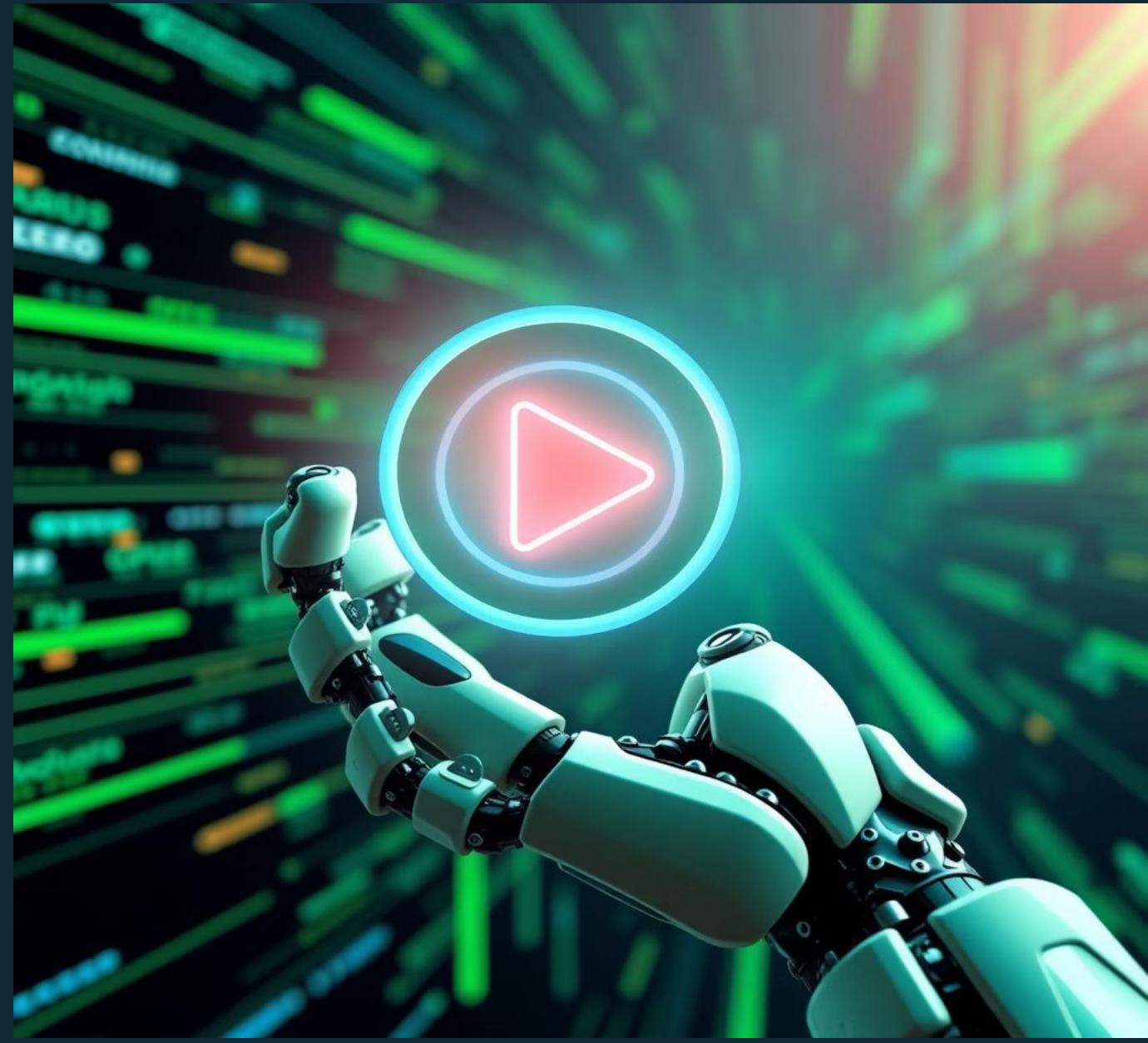
SEO-Optimized Descriptions

Boosts discoverability with AI-generated, search-friendly metadata.



Seamless Platform Uploads

Directly publishes content to YouTube and Twitch.



StreamAI: Our Core Technologies

StreamAI leverages cutting-edge technologies to deliver a seamless, automated experience for streamers.

OBS Integration

Robust capture of live stream data.

Groq + LLaMA

Fast, powerful AI for summary generation.

MoviePy

Intelligent, programmatic video editing.

Snowflake

Scalable and secure metadata storage.

Whisper AI

Accurate audio transcription for subtitles.

VideoDB

Efficient video asset management.

Vultr

To deploy the app as required by the Hackathon track.

StreamAI Workflow: From Stream to Success

See how StreamAI transforms raw streams into polished, shareable content with minimal effort.



Live Stream Input

Stream broadcasted via OBS.



AI Processing

Whisper, Groq, and LLaMA analyze and generate content.



Video Editing

MoviePy crafts highlights.



Auto-Publishing

Content uploaded to YouTube & Twitch.

StreamAI: Internal Workflow



- Streamer Starts



- OBS Captures the Stream



- Whisper Monitors Audio Levels



- MoviePy Cuts Video Based on Audio Thresholds



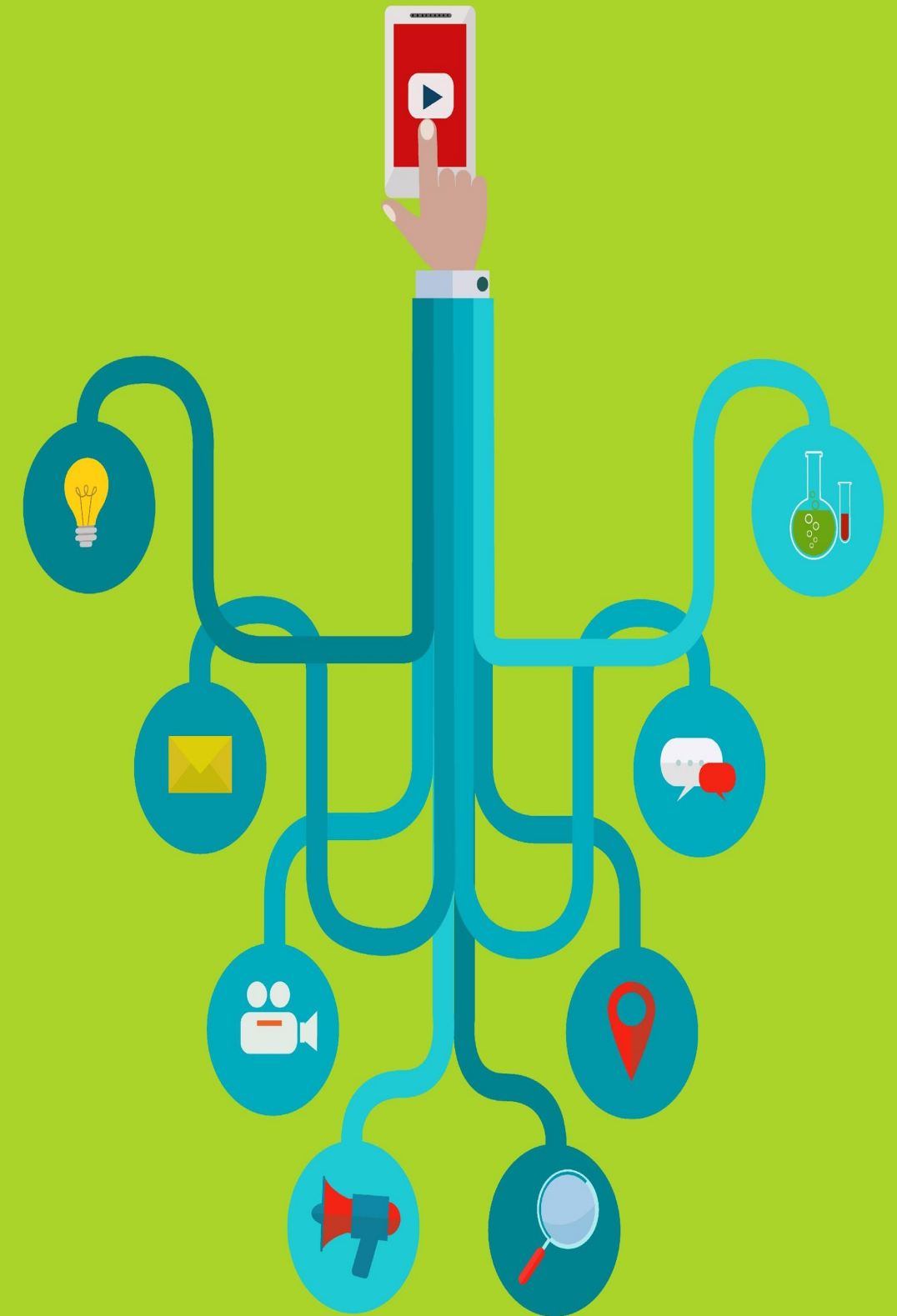
- LLaMA + Groq Generate Descriptions

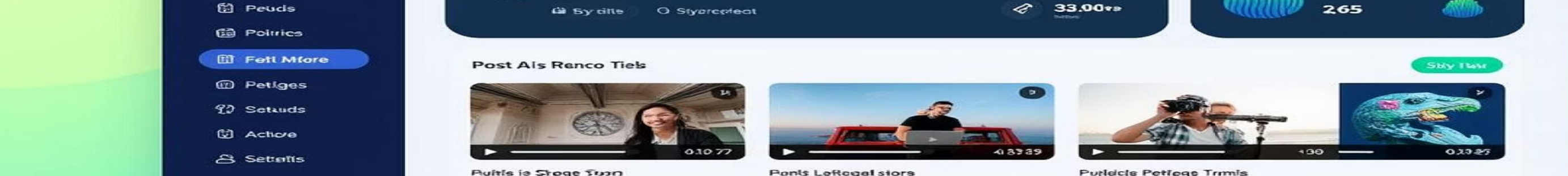


- Metadata Stored in Snowflake & VideoDB



- Auto-Upload to YouTube & Twitch





StreamAI: User Interface

A glimpse into the intuitive dashboard where streamers manage their content pipeline and settings.

- Intuitive dashboard for monitoring processing.
- Easy and appealing User Interface for the streamer.
- History of the recorded streams.
- Intelligent Agents used for editing , generating subtitles and description.
- Great User Experience for a non technical user also.

StreamAI: User Interface Pictures

Impact & Benefits: Empowering Streamers

StreamAI redefines content creation, offering tangible advantages for every streamer.

90%

Time Saved

Reduces post-production workload by up to 90%, freeing up hours for streaming.

200%

Reach Boost

Automated SEO and subtitles significantly expand audience reach and discoverability.

10x

Content Output

Enables streamers to produce high-quality, edited content up to 10 times faster.

Conclusion: The Future of Streaming Content

StreamAI is poised to transform how streamers create and share content, making professional-grade production accessible to everyone.

Live Montage Hack-Vultr Team:

- Dedicated to innovation and supporting the creator economy.
- Committed to continuous improvement and feature expansion.
- Collaborately working on the project to make it even better.

What's Next?

- Beta testing with key streamers.
- Integration with more streaming platforms.
- Advanced AI features for content analysis.
- Advanced analysis tools for checking the progress of every stream.



Useful Links and References:

Github repository Link :

Vultr deployed server link:



LiveMontageHack Team:

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