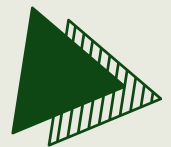


FABL CAST

Revolutionizing Podcast Creation
with AI-driven Dynamic
Conversations.



HackDUCKS 2025

CONTENTS

- Problem Statment
- Target Audience
- The Solution
- Key Features
- How it Works
- Tech Stack
- Use Cases Real World Applications
- Conclusion

PROBLEM STATEMENT

- Podcasts are booming but require scripting, voice talent, editing, and consistent creativity.
- Creators lack tools to generate interactive, multi-speaker podcast content from basic ideas.
- Current tools focus either on script writing or audio recording—not flexible, dynamic conversations.
- Podcasters spend hours crafting each episode, leading to burnout and inconsistency.
- There's a growing demand for personalized, on-demand content creation tools that scale.

TARGET AUDIENCE

- Indie Creators & Podcasters: Need fast and affordable ways to generate high-quality content.
- Educators & Edutainment Creators: Transform static lessons into engaging, conversational audio.
- Startups & Marketing Teams: Launch product explainers or storytelling campaigns with ease.
- Content Creators & Students: Make creative storytelling accessible with AI.
- Language Learners & Storytellers: Simulate real-life conversations to boost understanding.
- Voice-Impaired Creators: Empowered to create podcasts without needing to record voices themselves.

THE SOLUTION

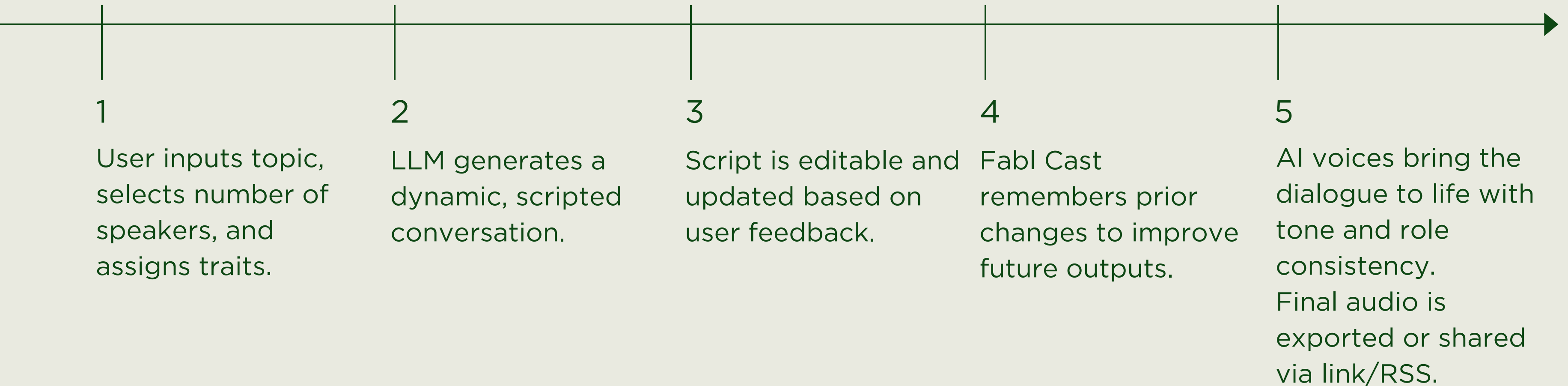
AI-powered platform that:

- Generates podcast scripts with LLMs from simple prompts or detailed instructions
- Customizes speaker count, gender, voice tone, personality, and topic
- Converts scripts into natural AI-generated voices with character distinction
- Takes real-time user feedback to evolve the story and improve quality
- Offers downloadable/shareable podcast-ready files
- Stores memory across episodes for continuity in recurring series

KEY FEATURES

FEATURE	DESCRIPTION
Multi-Speaker Simulation	Select 1 to 4 speakers (customize gender, tone, accents, roles)
Topic-based Script Generation	Generate an engaging, multi-person conversation from any topic
Feedback Loop	User feedback fine-tunes tone, pacing, facts, and future episodes
Customization Flexibility	Choose casual, formal, humorous, or serious tones

HOW IT WORKS FROM IDEA TO AUDIO IN MINUTES



TECH STACK

Frontend

React.js / Next.js with Tailwind CSS

Backend

Node.js / Flask with Express APIs

LLM

GPT-4 / Mixtral / Claude for script generation

TTS Engine

ElevenLabs / Bark / PlayHT for voice rendering

Personalization

LangChain + Pinecone Vector DB for memory

Hosting

Vercel / Firebase for scalability and speed

Database

MongoDB / Supabase for user data and scripts

Audio Controls

Web Audio API, ffmpeg for audio rendering & editing

UI Framework

Figma-based wireframes + Webflow prototype

USE CASES REAL WORLD APPLICATIONS

- To revolutionise access to ideas and technology, enabling all individuals to realise their full creative potential. Through collaboration, innovation, and Education: Turn lessons into conversational dialogues for engaging listening.
- Marketing: Create fun, informative multi-host campaigns about products.
- News: Auto-generate panel discussions on current affairs.
- Entertainment: Generate story-based audio dramas with multiple characters.
- Language Learning: Practice listening with varied conversational styles.
- Mental Health & Journaling: Create narrative reflections with virtual personas.
- Mock Interviews / Debates: Simulate HR interviews, debates, or test precommitment to inclusivity, we strive to create a more equitable and inspiring world.

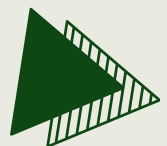
FEEDBACK & FUTURE ROADMAP

- Add regional language and multilingual speaker support
- Expand TTS library with community-submitted voice models
- Integrate emotional tone sliders & role-based scripting presets
- Automate RSS podcast publishing + Spotify/YouTube cross-posting
- Enable collaborative scripting and voice editing with teams
- Launch a creator marketplace for sharing voice packs and story arcs

CONCLUSION

Fabl Cast represents a bold step forward in the evolution of podcast creation. By harnessing the capabilities of large language models, dynamic voice synthesis, and adaptive user feedback, it transforms a simple idea into a rich, multi-speaker conversation with depth, emotion, and narrative flow. Its flexibility allows users to choose the number of speakers, their tones, personalities, and even how a story unfolds over time—making content creation both powerful and personal. More than just a tool, Fabl Cast is a creative partner for storytellers, educators, marketers, and everyday users who want to share their voice with the world. In a digital landscape where audio content is booming, Fabl Cast offers an intuitive, intelligent, and scalable way to shape the future of storytelling.

Thank you.



TEXMACHER

PRIYANSHI (TEAM LEAD)

RUCHIRA

PRIYAM

ANKITA