Blog-to-Podcast User Guide

Table of Contents

Introduction

Sravan's AI Podcast Studio transforms written blog posts into engaging video podcasts with professional multi-speaker narration and synchronized subtitles.

What You Get

- **MP3 Audio**: High-quality podcast audio with two distinct voices

- **MP4 Video**: Professional video with animated backgrounds and captions

- **Automated Script**: AI-generated conversational dialogue

- **Fast Processing**: 2-3 minutes per blog post

Getting Started

System Requirements

- **Operating System**: Windows 10+, macOS 10.15+, or Linux

- **Python**: 3.11 or higher

- **RAM**: 4GB minimum (8GB recommended)

- **Storage**: 2GB free space

- **Internet**: Required for API access

Installation

Download the Project `bash git clone <repository-url> cd blog-to-podcast`

Create Virtual Environment `bash python -m venv venv # Windows venv\Scripts\activate # macOS/Linux source venv/bin/activate`

Install Dependencies `bash pip install -r requirements.txt`

Configure API Key

5. Create a `.env` file in the project root

6. Add your Google API key: `GOOGLE_API_KEY=your_api_key_here`

   Get your key from: https://makersuite.google.com/app/apikey

Initialize Database `bash python manage.py migrate`

Start the Server `bash python manage.py runserver`

Open Your Browser

11. Navigate to: http://localhost:8000

Using the Application

Creating Your First Podcast

1. **Enter Blog URL**

2. Paste the full URL of any blog post

   Example: `https://example.com/my-article`

Click "Generate Podcast"

5. The system will start processing

   You'll see real-time progress updates

Wait for Completion

8. Processing takes 2-3 minutes

   Progress bar shows current step

   Download Your Files

11. Click "Download MP3" for audio

12. Click "Download MP4" for video

Managing Sessions

- **Create New Session**: Click "New Session" button

- **View Session Logs**: Check the session logs panel for detailed progress

- **Multiple Sessions**: Process multiple blogs simultaneously

Features

Multi-Speaker Audio

- **Host A (Rehaan)**: Male voice, energetic tone

- **Host B (Kavya)**: Female voice, soft and engaging

- **Natural Dialogue**: AI-generated conversational flow

- **Accurate Timing**: Precise subtitle synchronization

Professional Video

- **1080p Resolution**: High-quality output

- **Animated Backgrounds**: Dynamic gradients and particles

- **Synchronized Subtitles**: Bullet-point captions

- **Live Indicator**: Professional "LIVE" badge

AI-Powered Script

- **Google Gemini 2.0**: State-of-the-art language model

- **Conversational Style**: Natural back-and-forth dialogue

- **Content Summarization**: Key points highlighted

- **Engaging Format**: Optimized for listening

Tips & Best Practices

Choosing Blog Posts

■ **Good Choices:** - Educational articles (500-3000 words) - How-to guides and tutorials - News articles and analysis - Product reviews

■ **Avoid:** - Image-heavy posts with minimal text - Very short posts (<300 words) - Posts behind paywalls - Sites with anti-scraping protection

Optimizing Results

1. **Use Clean URLs**: Direct article links work best

2. **Check Content**: Ensure the blog has substantial text

3. **Wait Patiently**: Don't refresh during processing

4. **Download Promptly**: Files are stored temporarily

Troubleshooting Common Issues

"Failed to fetch content" - Check if the URL is accessible - Verify internet connection - Try a different blog post

"Script generation failed" - Verify your Google API key - Check API quota limits - Ensure API key has Gemini access

"Audio generation error" - Check internet connectivity - Verify Edge TTS service is accessible - Try again after a few minutes

Video rendering slow - Normal for longer content - Close other applications - Ensure sufficient disk space

FAQ

Q: How long can the blog post be? A: Optimal length is 500-3000 words. Very long posts (5000+) will be summarized.

Q: Can I customize the voices? A: Currently, voices are fixed (Rehaan and Kavya). Customization may be added in future versions.

Q: What languages are supported? A: Currently English only. Multi-language support is planned.

Q: Can I edit the script before generating audio? A: Not in the current version. This feature is under consideration.

Q: How much does it cost? A: The application is free. You only need a Google API key (free tier available).

Q: Can I use this commercially? A: Check the license file. Generally, yes, but verify Google's API terms.

Q: Where are my files stored? A: Files are stored in the `media/` directory. They persist until manually deleted.

Q: Can I process multiple blogs at once? A: Yes, up to 5 concurrent tasks (configurable).

Support

For issues or questions: - Check the troubleshooting section - Review session logs for error details - Consult the ARCHITECTURE.md for technical details

---

Version: 1.0
Last Updated: December 2025