

# Script and Video Generation along with Captions and Lipsync

## WHAT YOU NEED:

- ✓ Telegram Bot Token
- ✓ ElevenLabs API Key + Voice ID
- ✓ veed.io API Key with FAL.ai
- ✓ Google Sheets Document
- ✓ OpenAI API Key
- ✓ Perplexity API Key

## Setup

1. Import this workflow into your n8n instance.
2. Connect your Google Sheets, Gmail, and Google Calendar credentials. Tutorial: [Configure Your Google Sheets, Gmail, Calendar Credentials]
3. Connect Your Data in Google Sheets. Data must follow this format: [Sample Sheets Data]([https://docs.google.com/spreadsheets/d/1518uJTWNh2W9OveH0zVzDP5Fk\\_mO\\_zm1dtNp5QcHdYI/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1518uJTWNh2W9OveH0zVzDP5Fk_mO_zm1dtNp5QcHdYI/edit?usp=sharing))

## STEP 1: TELEGRAM BOT SETUP

1. Create a Telegram Bot:
  - Message @BotFather on Telegram
  - Send /newbot command
  - Follow prompts to name your bot
  - Copy the API token provided
2. Configure Telegram Trigger Node:
  - Click the "Telegram Trigger" node
  - Add Telegram credentials with your token
  - Select "Updates" to trigger on: Message, Photo
  - Save the node
3. Test:
  - Activate the workflow
  - Send a photo with caption to your bot
  - Caption = theme (e.g., "fitness motivation")

Ready when: Bot responds to messages

## STEP 2: API KEYS CONFIGURATION

Configure the "Workflow Configuration" node with:

1. ElevenLabs (Voice Synthesis):

- Sign up at elevenlabs.io
- Get API key from profile settings : <https://fal.ai/models/fal-ai/elevenlabs/tts/eleven-v3/api>
- Create/clone a voice, copy Voice ID
- Replace: elevenLabsApiKey, elevenLabsVoiceId

## 2. FAL.ai (Video Generation):

- Sign up at fal.ai
- Get API key from dashboard : <https://fal.ai/models/veed/fabric-1.0/playground>
- Replace: falApiKey

All keys added to Workflow Configuration node

## STEP 3: AI PROCESSING SETUP

### 1. Perplexity API (Trend Research):

- Sign up at perplexity.ai
- Get API key from settings
- Add credentials to "Search Trends" node
- Model: llama-3.1-sonar-large-128k-online

### 2. OpenAI API (Script & Caption):

- Sign up at platform.openai.com
- Create API key
- Add credentials to both GPT-4 nodes:
  - "Generate Script with GPT-4"
  - "Generate Caption with GPT-4"
- Model: gpt-4o

### 3. Use VEED : <https://fal.ai/models/veed/fabric-1.0/api>

- Sign up at <https://fal.ai/>
- Create fal API key

## STEP 4: VOICE & VIDEO GENERATION

These nodes are pre-configured and work automatically:

### 1. ElevenLabs Voice Synthesis: <https://fal.ai/models/fal-ai/elevenlabs/tts/eleven-v3/api>

- Converts script to natural speech
- Uses your cloned voice
- Outputs MP3 audio file

### 2. FAL.ai Video Generation:

- Takes your photo + audio
- Creates talking video (lip-sync)
- Uses VEED Fabric 1.0 model
- Syncs mouth movements to audio

### 3. Download Generated Video:

- Retrieves final video file
- Prepares for publishing

## NO CONFIGURATION NEEDED

Just ensure API keys are set in Step 2

Automatic processing - no action required

## HOW IT WORKS - WORKFLOW FLOW

- ① You send: Photo + Theme via Telegram  
↓
- ② Perplexity finds: Current viral trends  
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- ③ GPT-4 creates: 10-second viral script  
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- ④ ElevenLabs generates: Voice audio (MP3)  
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- ⑤ FAL.ai creates: Talking video from photo  
↓
- ⑥ GPT-4 writes: Optimized caption + hashtags  
↓
- ⑦ Saves to: Google Sheets (tracking)

### 💡 USAGE:

Send photo with caption "fitness tips"  
→ Get viral fitness video