

Text-to-Speech web interface:-

Here's a **complete Python script** using **Coqui TTS** and **Gradio** to create a **Text-to-Speech web interface**. This app lets users type text, click a button, and hear the generated speech.

❑ Full Code: Text-to-Speech Web UI with Coqui TTS + Gradio

❑ Requirements

First, install dependencies:

```
pip install TTS gradio
```

📄 Python Script (tts_app.py)

```
import gradio as gr
from TTS.api import TTS
import os

# Load the pretrained TTS model (Tacotron2 + DDC vocoder)
tts = TTS(model_name="tts_models/en/ljspeech/tacotron2-DDC")

# Define TTS generation function
def generate_speech(text):
    output_path = "output.wav"
    tts.tts_to_file(text=text, file_path=output_path)
    return output_path

# Create Gradio interface
demo = gr.Interface(
    fn=generate_speech,
    inputs=gr.Textbox(label="Enter text to synthesize"),
    outputs=gr.Audio(label="Generated Speech"),
    title="Text-to-Speech App (Coqui TTS)",
    description="Enter your text, and this app will convert it into speech using Coqui TTS."
)
```

```
# Launch the app
demo.launch()
```

▶ ☐ How to Run

Save the file as `tts_app.py`, then run:

```
python tts_app.py
```

A local Gradio interface will open in your browser at `http://127.0.0.1:7860`.

☐ Bonus Features You Can Add

- ☐ **Multi-language models** (`tts_models/fr/mai/tacotron2-DDC`)
- ☐ **Speaker selection** (`tts_models/en/vctk/vits`)
- ☐ **Upload custom voice data** (voice cloning)
- ☐ **Deploy to Hugging Face Spaces or Streamlit Cloud**