Import streamlit as st

From io import BytesIO

# Translators (use googletrans first; fall back to deep-translator if needed)

Try:

From googletrans import Translator

GOOGLETRANS\_OK = True

Except Exception:

GOOGLETRANS\_OK = False

Try:

From deep\_translator import GoogleTranslator as DTGoogleTranslator

DEEPTRANS\_OK = True

Except Exception:

DEEPTRANS\_OK = False

From gtts import gTTS

St.set\_page\_config(page\_title=”Sanskrit → English”, page\_icon=”🕉️”)

St.title(“🕉️ Sanskrit Shloka Translator (Free)”)

St.write(“Type/paste a Sanskrit shloka. Get an English meaning and optional audio pronunciation.”)

# Input box

Sanskrit\_text = st.text\_area(“Enter Sanskrit text”, height=160, placeholder=”धर्मक्षेत्रे कुरुक्षेत्रे समवेता…”)

Make\_audio = st.checkbox(“Also generate English audio”, value=True)

Def translate\_text(txt: str) -> str:

Txt = txt.strip()

If not txt:

Return “”

# Try googletrans first

If GOOGLETRANS\_OK:

Try:

Result = Translator().translate(txt, src=”sa”, dest=”en”)

Return result.text

Except Exception:

Pass

# Fallback to deep-translator

If DEEPTRANS\_OK:

Try:

Return DTGoogleTranslator(source=”auto”, target=”en”).translate(txt)

Except Exception:

Pass

# If all fail

Return “”

Def tts\_mp3\_bytes(text: str, lang=”en”) -> bytes:

Mp3\_buffer = BytesIO()

# gTTS can fail on very long text; keep it reasonable

Snippet = text if len(text) < 4000 else text[:4000]

Tts = gTTS(text=snippet, lang=lang)

Tts.write\_to\_fp(mp3\_buffer)

Mp3\_buffer.seek(0)

Return mp3\_buffer.read()

If st.button(“Translate”):

If not sanskrit\_text.strip():

St.warning(“Please enter some Sanskrit text.”)

Else:

With st.spinner(“Translating…”):

Eng = translate\_text(sanskrit\_text)

If eng:

St.subheader(“English Translation”)

St.write(eng)

If make\_audio:

With st.spinner(“Generating audio…”):

Audio\_bytes = tts\_mp3\_bytes(eng, lang=”en”)

St.audio(audio\_bytes, format=”audio/mp3”)

St.download\_button(

“Download MP3”,

Data=audio\_bytes,

File\_name=”translation\_en.mp3”,

Mime=”audio/mpeg”,

)

Else:

St.error(“Translation failed. Try again or check your internet connection.”)