**AI Fashion Try-On Setup Guide**

**AI Code Explained:**

| Library | Purpose |
| --- | --- |
| flask | To create a lightweight HTTP server in Colab to receive and handle requests. |
| pyngrok | Creates a public URL (via ngrok) to expose the Flask server running in Colab. |
| insightface==0.7.3 | For face detection and face swapping (used with inswapper\_128.onnx). |
| diffusers | To load and run the Stable Diffusion model for generating fashion images. |
| transformers | Needed by diffusers for prompt encoding using transformer-based tokenizers. |
| accelerate | Optimizes inference speed and memory usage on GPUs. |
| onnxruntime-gpu | Executes ONNX models (like inswapper\_128.onnx) using GPU acceleration. |

# STEP 1: Set Up Google Drive with Model File

Download inswapper\_128.onxx using this link

And upload in google drive

https://drive.google.com/file/d/1krOLgjW2tAPaqV-Bw4YALz0xT5zlb5HF/view

* 1. Open your Google Drive.
* 2. Upload the file 'inswapper\_128.onnx' to this path:
* My Drive/inswapper\_128.onnx
* (Do not place it inside a folder.)

# STEP 2: Run Google Colab (AI Worker)

* 1. Open 'colab\_ai\_worker.py' in Google Colab.
* 2. Setup hugging face token in secret section ( name should be HF\_TOKEN in place of name and paste code inplace of value) then on notebook access
* 2. Replace the ngrok token with your own:
* Get it from: https://dashboard.ngrok.com/get-started/your-authtoken
* 3. Click 'Runtime > Run all' to execute the notebook.
* 4. After loading, it will display a URL like:
* https://abcd1234.ngrok-free.app (Copy this for Step 3)

# STEP 3: Set Up FastAPI Backend (On Your PC)

* 1. Ensure Python is installed.
* 2. Open terminal and run:
* pip install fastapi uvicorn requests
* 3. Open 'fastapi\_backend.py' and replace the URL with the one from Colab: - COLAB\_AI\_WORKER\_URL = "https://abcd1234.ngrok-free.app/generate"
* 4. Start the backend:
* uvicorn fastapi\_backend:app --reload

# STEP 4: Run Streamlit Frontend (On Your PC)

* 1. Install Streamlit:
* pip install streamlit
* 2. Open 'streamlit\_app.py' and make sure:
* FASTAPI\_BACKEND\_URL = "http://127.0.0.1:8000/create-look"
* 3. Start the app:
* streamlit run streamlit\_app.py
* 4. A browser window will open with the app interface.

# FINAL NOTES

* - Run Colab first then FastAPI then Streamlit.
* - Update Colab ngrok URL in 'fastapi\_backend.py' every time you rerun Colab.
* - Ensure 'inswapper\_128.onnx' exists in your Google Drive.