# Mini Product Upload Pipeline (with Shopify API Integration)

Author: Lohith

## Project Description

This project automates the end-to-end process of generating AI-based product ideas, creating mockup images, and uploading the final product to a Shopify store using the Shopify API.  
  
It demonstrates your ability to:  
- Use Python scripting  
- Work with OpenAI APIs  
- Handle product image generation  
- Integrate with third-party services (Shopify)

## Technologies Used

- Python  
- JavaScript  
- OpenAI API (for product idea generation)  
- Shopify API (for product upload)  
- PHP (for product publishing)  
- GitHub for version control

## Files Overview

generate\_product.py - Generates product idea using OpenAI  
mock\_image.js - Creates a mockup image of the product  
upload\_product.py - Uploads the product and image to Shopify  
publish.php - Publishes data or handles web requests  
orchestrate.py - Runs the full pipeline from idea to upload

## Shopify API Integration Steps

1. Created Shopify Partner Account  
2. Created a development store  
3. Generated Admin API Access Token  
4. Used the token and store URL in Python upload\_product.py  
5. Tested and validated product upload using API

## How to Run

1. Set your API keys and Shopify store URL in environment/config.  
2. Run:  
 python orchestrate.py  
3. A product idea is generated, image is created, and the product is uploaded to your Shopify store.

## Output

- One product successfully added to Shopify store via API  
- Console output with product ID and image confirmation

## Submission Contents

• GitHub repo: https://github.com/lohith459/mini\_product\_pipeline  
• Video showing script execution and Shopify upload  
• This README file (explaining all steps)

## 📽️ Demo Video

Watch the working demo of the AI-based product upload pipeline:  
🔗 https://drive.google.com/file/d/1bjipctn3ePAH5hdpOBGjOaN4bfRwnp9\_/view?usp=sharing