

Stage 13 — Productization: Stakeholder Summary

Goal

- Demonstrate a minimal, handoff-ready repo:
 - Clear folders, reusable code, persisted model, Flask API, tests.

Model & Data

- Toy Linear Regression trained on synthetic data (for demo purposes).

Key Artifacts

- model/model.pkl — serialized model
- app.py — prediction API (POST/GET + /plot)
- src/train_model.py — training workflow
- reports/train_metrics.json — R2, MAE snapshot

How to Use

- 1) pip install -r requirements.txt
- 2) python -m src.train_model
- 3) python app.py

Next Steps

- Replace synthetic pipeline with your real dataset & features.
- Extend validation, logging, and error handling.
- Add Streamlit dashboard for business users.