Experiment 6

Aim: Containerization & API Deployment

Objective: Package model in Docker; build API with FastAPI or Flask for predictions.

Detailed Steps

- Write FastAPI `/predict` endpoint

- Test with sample JSON POST

- Write Dockerfile and build image

- Run and test local container

Open-Source Tools

Docker, FastAPI, Flask, Python

Deliverables

- API code

- Dockerfile

- Local test evidence

Conclusion