

Fake Currency Detection using CNN

By

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Project Overview

This project detects fake currency. We use a CNN model.

The system classifies notes as real or fake.

It's based on extracted image features.





Dataset Details

Dataset Name

Fake Currency Dataset

Source

Kaggle

Image Processing

Images are preprocessed for training.

CNN Model Architecture



ResNet50 Base

Pretrained ResNet50 is the foundation.



Custom Layers

Fully connected layers are added.



Dropout

Dropout layers prevent overfitting.



Output Layer

Dense layer with softmax activation.



Model Training Process

Loss Function

Categorical Crossentropy

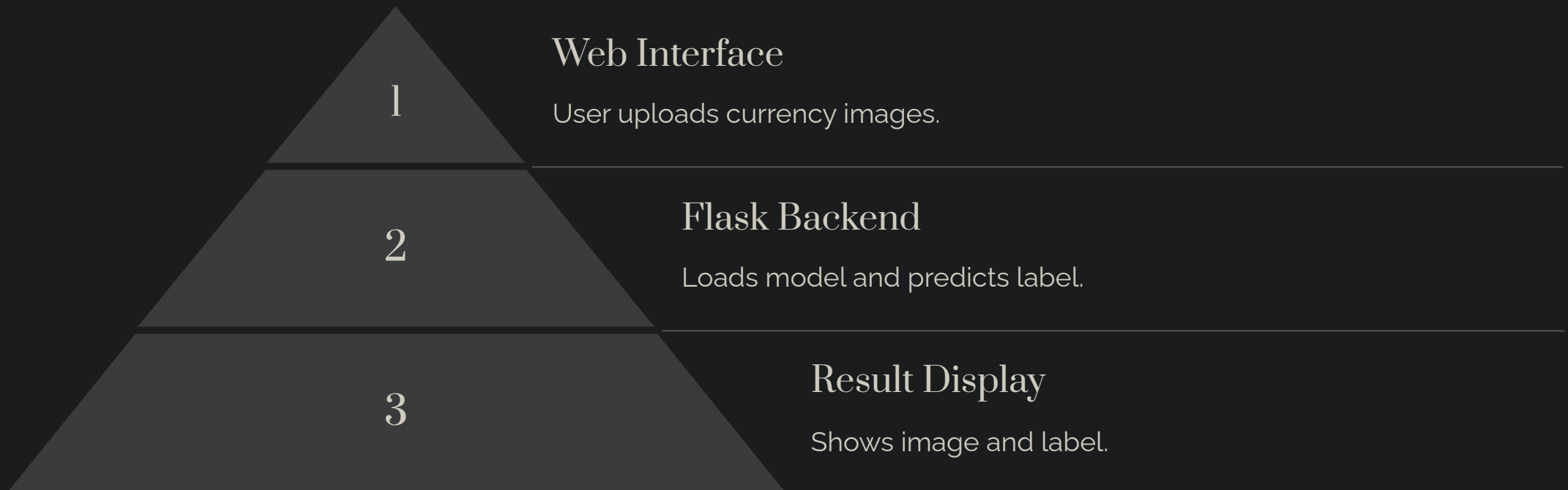
Optimizer

SGD (lr=1e-6, momentum=0.9)

Callbacks

EarlyStopping, ModelCheckpoint

Flask Deployment



Currency Banner

Fake Currency Detection

Choose File No file chosen

Predict

Prediction: Real



Try Another

Prediction: Fake



Try Another



Results and Accuracy



High Accuracy



Effective
Detection



Real-time
Deployment

Conclusion

