

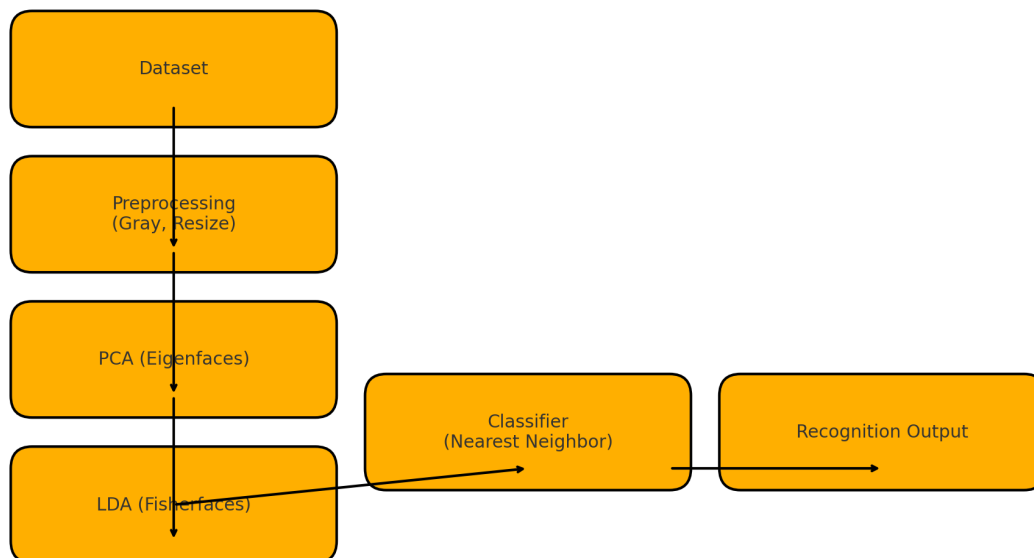
Hybrid Face Recognition and Image Compression System Using PCA, LDA, DCT, and Huffman Encoding

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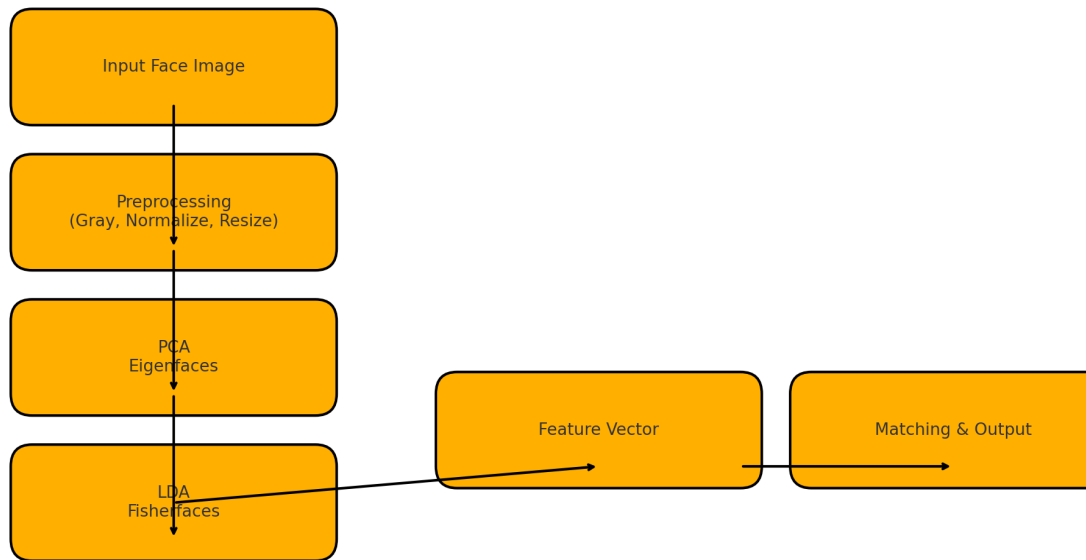
Abstract

This project presents a hybrid system integrating PCA-based Eigenfaces, LDA-based Fisherfaces, and DCT + Huffman coding for image compression. The system performs efficient face recognition while enabling high-quality compressed image generation.

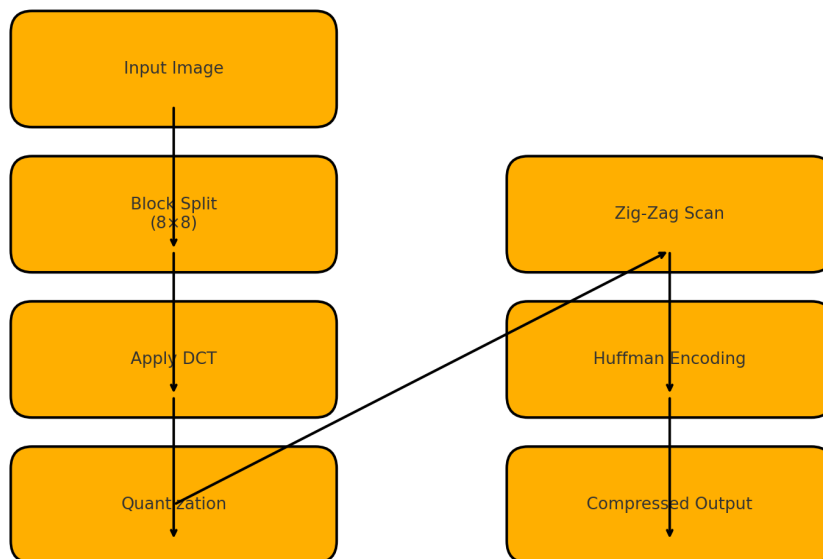
System Architecture Diagram



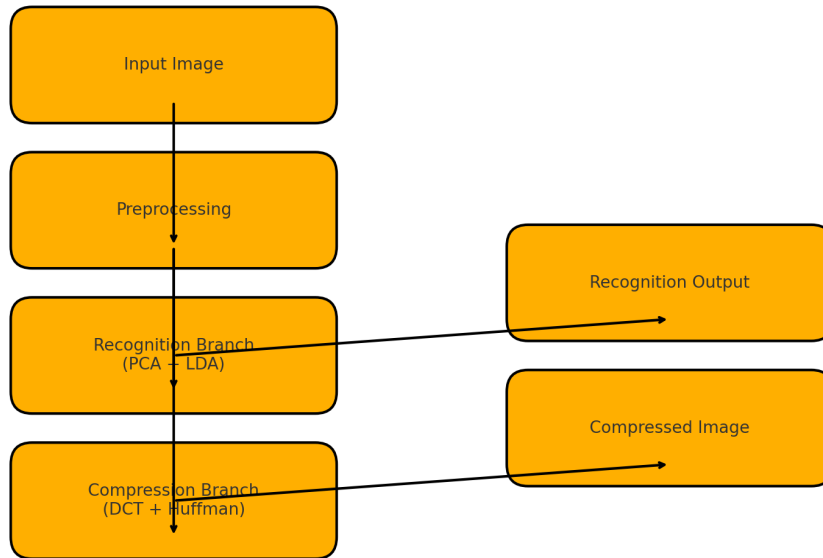
Face Recognition Pipeline



Compression Pipeline



Combined System Flow



Module Interaction Diagram

