

# CS 663 - Fundamentals of Digital Image Processing

## Assignment 4

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### 1 Mini Face Recognition System

#### 1.1 ORL Face database

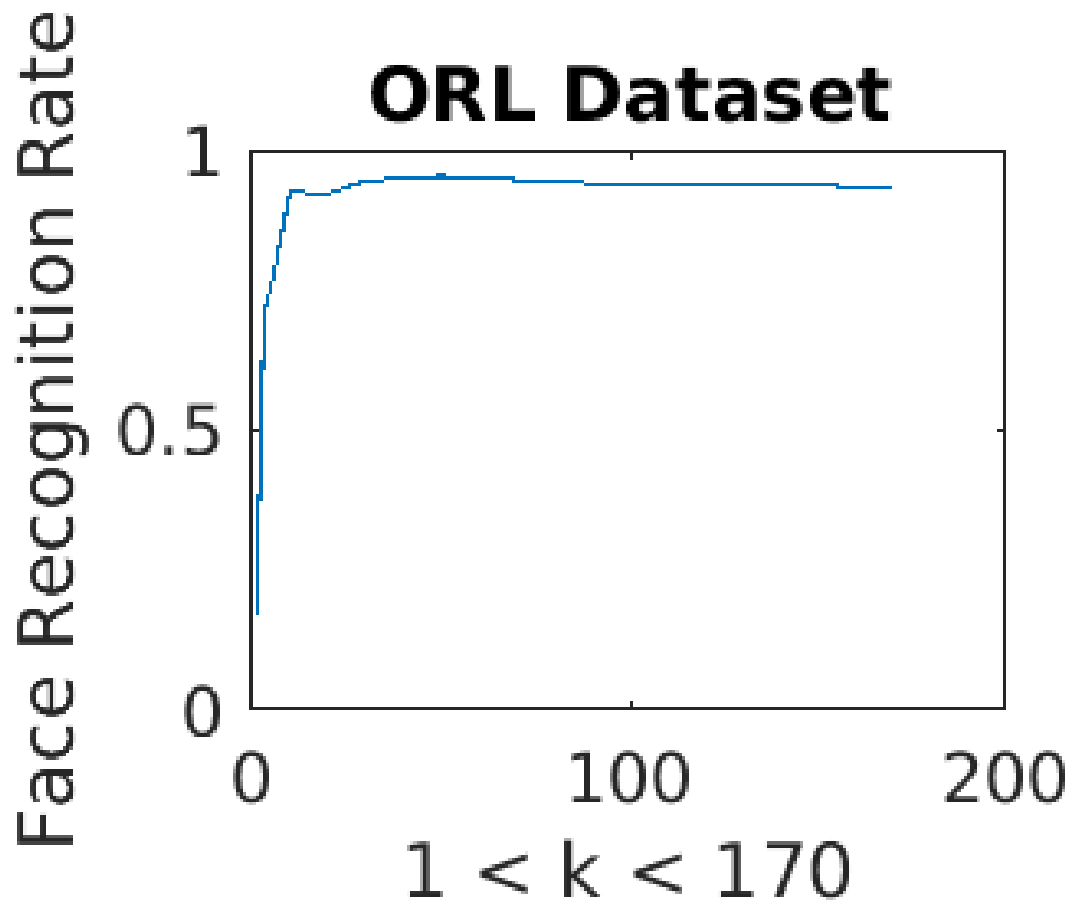


Figure 1: Recognition Rate

Max Recognition rate  $\approx 0.95$

## 1.2 Yale Face database

### 1.2.1 Considering all the eigencoefficients

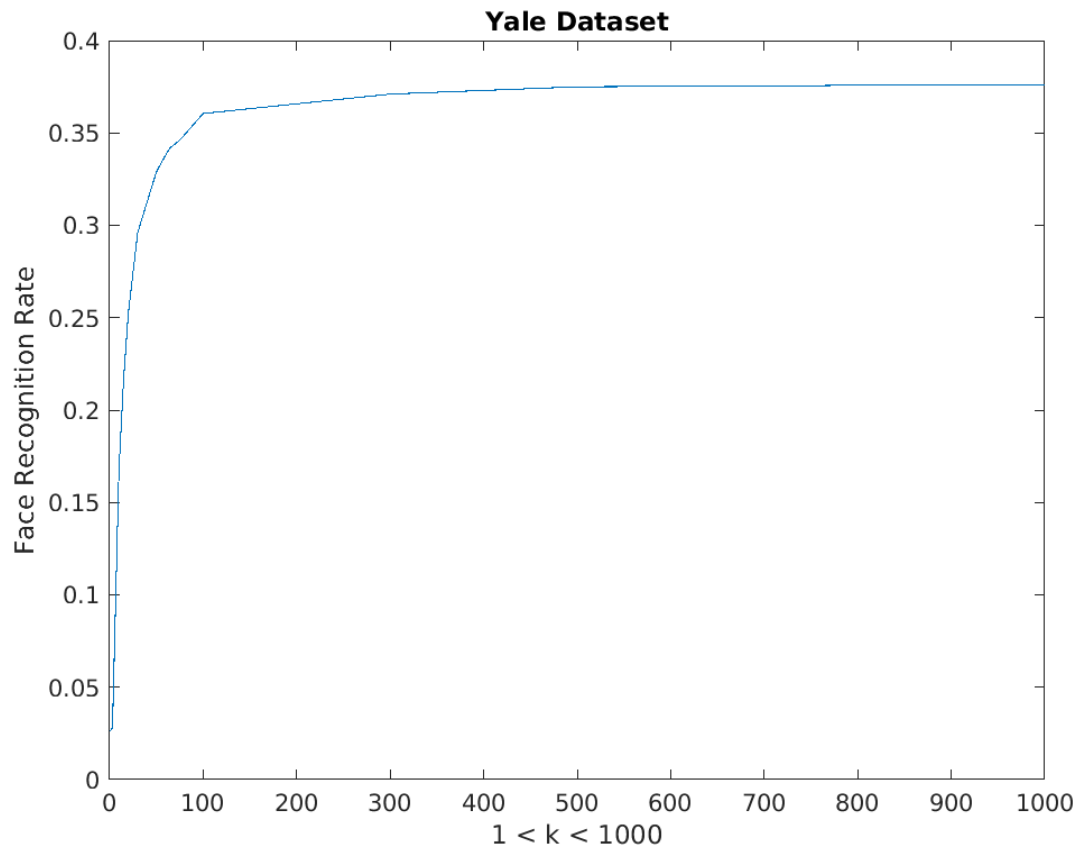


Figure 2: Recognition Rates

Max Recognition rate  $\approx 0.35$

### 1.2.2 Considering all except the three eigencoefficients with largest eigenvalues

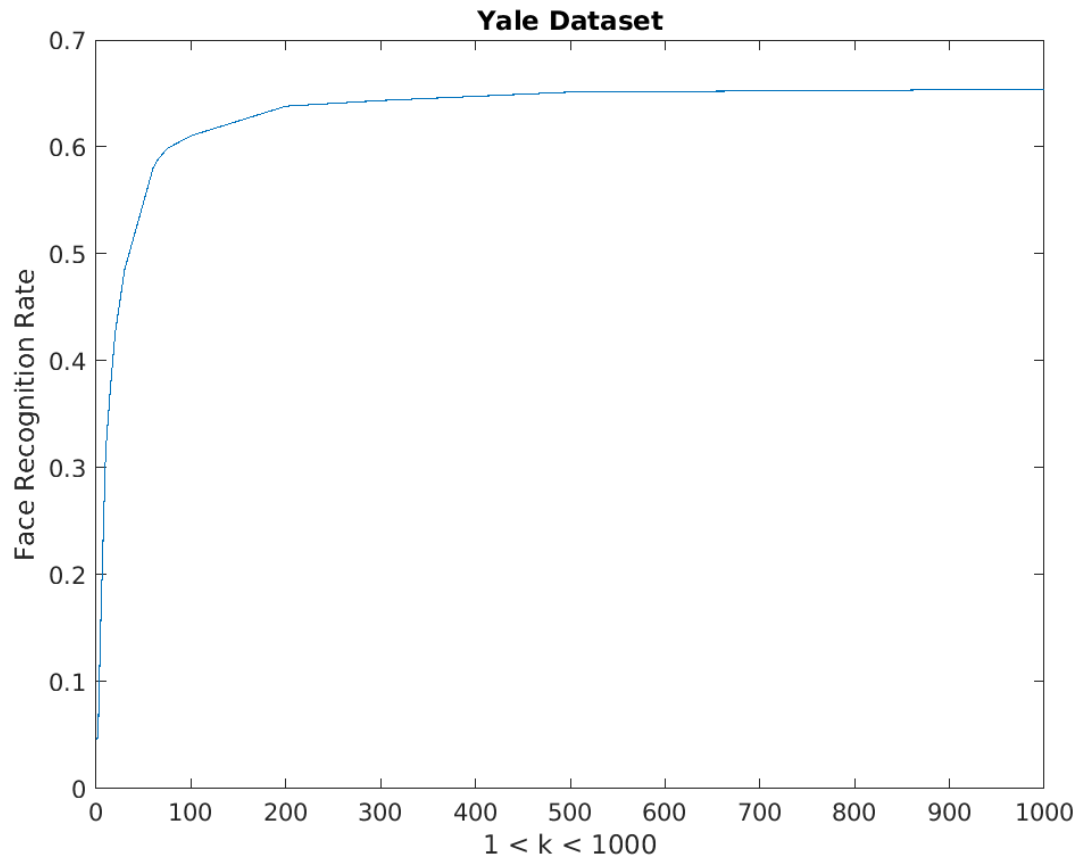


Figure 3: Recognition Rates

Max Recognition rate  $\approx 0.60$