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# Face Expression Recognition Project

A detailed report on the Face Expression Recognition  
Project



# Project Overview

A brief summary of the project

**Team Members:**  
**Mohamed Ashraf,**  
**Mahmoud Kamal**

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**Tools and Technologies:**  
**Python, OpenCV, Keras,**  
**TensorFlow**

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**Project Name: Face**

The project aims to develop a system that can recognize facial expressions in real-time. The



**Objective: To classify facial expressions into seven categories**

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# The Challenge

The challenges faced during the project



**Lack of a comprehensive dataset**



**Limited computational  
resources**



Description of a primary heading



**Difficulty in detecting  
subtle facial expressions**

Description of a primary heading

# Data Collection

The process of collecting data for the project



## Data Collection Method: Online survey

The team collected data through online surveys and



**Number of Classes: 7**

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**Number of Samples:**

**30,000+**

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# Data Preprocessing

The process of preprocessing the collected data



## Data Cleaning

The team cleaned the data by removing irrelevant



## Data Augmentation

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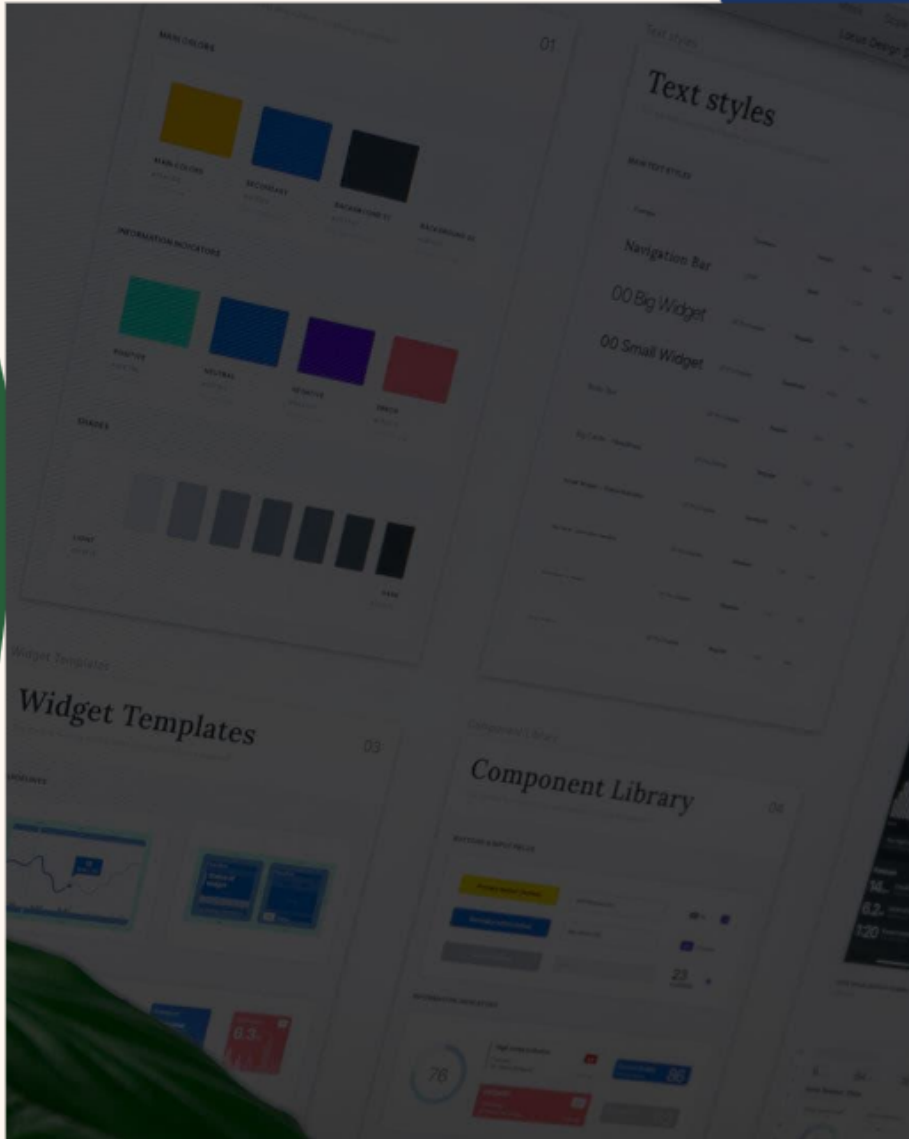


## Normalization

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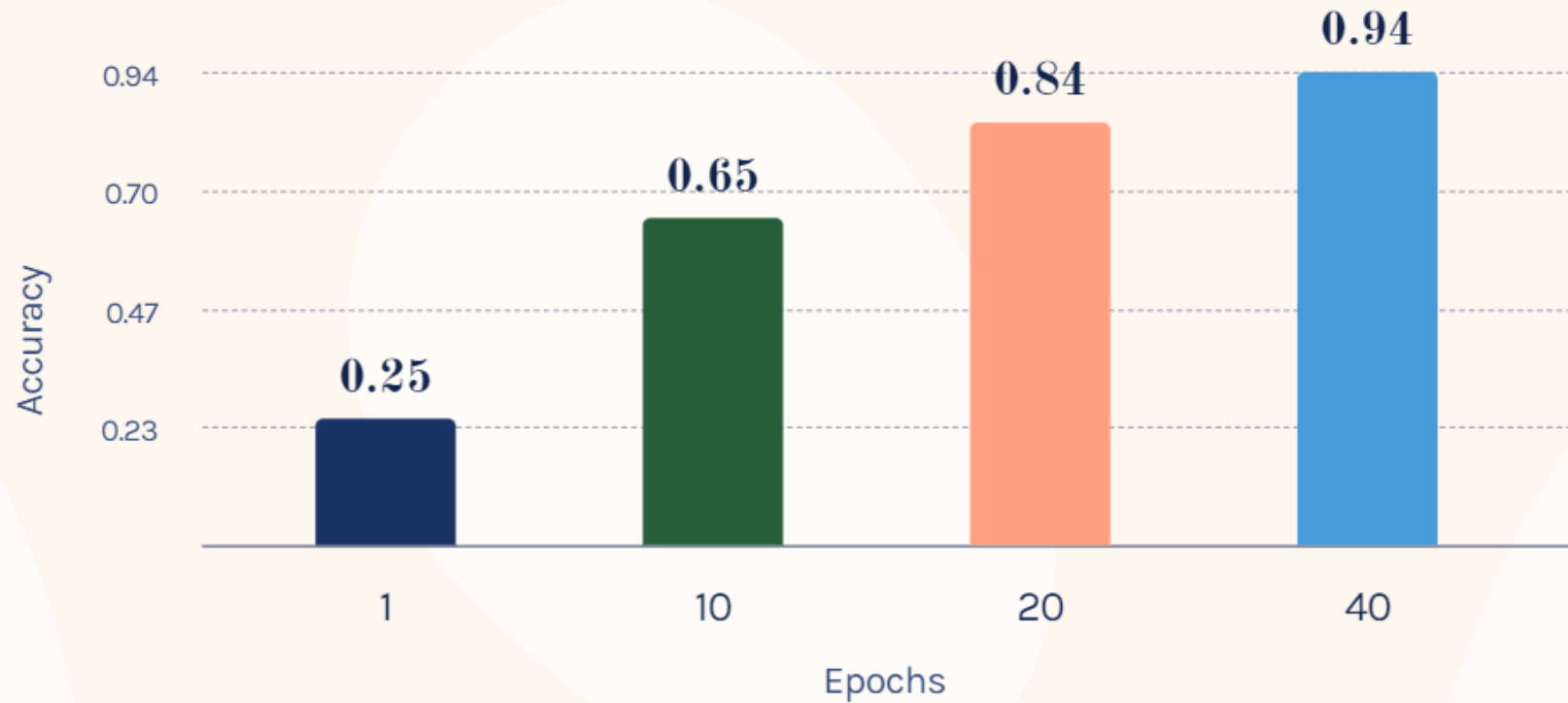
# **Model Architecture**

The architecture of the model used for facial expression recognition



# Training and Validation

The process of training and validating the model



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# Results

The performance of the model on the test data

	a	b	c	d	+
1	Class	Precision	Recall	F1-Score	
2	Happy	0.90	0.85	0.87	
3	Sad	0.79	0.83	0.81	
4	Angry	0.75	0.72	0.73	
5	Neutral	0.82	0.80	0.81	...
6	Fear	0.70	0.68	0.69	
7	Disgust	0.85	0.86	0.85	
8	Surprise	0.78	0.79	0.78	
	+		...		