## **Slide 1: Title Slide**

**Title**: Face-Recognition-Based Automatic Attendance System **Subtitle**: Project Report **Your Name**: [Your Name] **Date**: [Date] **Institution**: [Your Institution]

## **Slide 2: Table of Contents**

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## **Slide 3: Introduction**

* **Background**: Explain the motivation behind the project.
* **Objectives**: List the main objectives of the project.
* **Scope**: Define the scope and limitations.

## **Slide 4: Technology Stack**

* **Programming Language**: Python
* **Web Framework**: Flask
* **Libraries**: opencv-python, face-recognition, numpy, pandas, joblib, sklearn, pytz
* **Database**: SQLite

## **Slide 5: System Components**

* **Dataset Preparation**: Directory structure and image processing.
* **Model Training**: KNN classifier training process.
* **Flask Application**: Routes and functionalities.
* **Real-Time Face Recognition**: Video capture and face matching.
* **Attendance Logging**: Database operations.

## **Slide 6: Algorithm and Implementation**

* **Face Detection**: Haar Cascade Classifier.
* **Face Recognition**: Face encodings and KNN algorithm.
* **Model Training**: Steps involved in training the model.
* **Real-Time Recognition**: Capturing and processing video frames.

## **Slide 7: Database Design**

* **Schema**: Tables and relationships.
* **Operations**: Data storage, retrieval, and updates.

## **Slide 8: User Interface Design**

* **Wireframes**: Visual representation of the UI.
* **Screens**: Key screens and their functionalities.
* **Interaction Flow**: How users interact with the system.

## **Slide 9: Testing and Evaluation**

* **Testing Methodology**: Types of testing performed.
* **Performance Metrics**: Accuracy, precision, recall, F1-score.
* **Results**: Quantitative metrics and qualitative observations.
* **Challenges**: Issues encountered and solutions.

## **Slide 10: Conclusion**

* **Summary**: Key points of the project.
* **Achievements**: What was accomplished.
* **Impact**: Potential impact of the system.

## **Slide 11: Future Work**

* **Improvements**: Potential enhancements and new features.
* **Extensions**: Possible extensions of the project.

## **Slide 12: Q&A**

* Open the floor for questions from the audience.