# Abstract

# FaceTag

**Keywords:**

**Face Recognition, Firebase Storage, Google Vision API, AI Integration, Photo Sharing, QR Code Access, Machine Learning, Image Tagging, Face Matching.**

**Problem Statement:**

In large events like weddings or trips, guests often struggle to find personal photos among thousands clicked by various photographers. Manual tagging is time-consuming and often inaccurate. This project aims to develop an AI-powered event photo platform that automatically identifies and displays event images to users based on facial recognition, making photo discovery effortless, private, and personalized.

**Abstract:**

Have you ever been to a big wedding, college trip, or family gathering and had a hard time finding your own photos later? That's exactly the problem we wanted to solve with the FaceTag.Our platform is a smart photo-sharing solution that uses face recognition to automatically find and show you only the pictures you appear in, no more endless scrolling through hundreds of photos. All you need to do is enter a unique event code or scan a QR code, and the system takes care of the rest.

We've built this using a powerful combination of tools like Google Vision API, face-api.js, and DeepFace to handle facial recognition, and we use Firebase Storage to store the photos and Firestore to manage all the data like photo details and user feedback.

Event organizers (or admins) upload the reference selfies and the event images. Then, our backend built with Flask and Node.js , processes everything in the background, matches faces, and neatly organizes the results.On the front end, users are greeted with a smooth, modern blue-themed interface inspired by SnapShare and BlueMetrics. They can even leave feedback, and soon we'll be adding an AI assistant to help with any queries during browsing.At its core, this project is all about making memories easier to find. Whether it's a wedding, school event, or trip with friends. We want every guest to feel the joy of finding their perfect moments without any hassle.

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