FACE RECOGNITION SYSTEM

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CONTENTS

INTRODUCTION

- What is a face recognition system?
- *Advantages*
  - Convenient
  - Non-invasive
  - Security
- *Disadvantages*
  - Privacy Issues
  - Accuracy and bias
  - Ownership

METHODOLOGY

Steps involved in face recognition task:

- *Face Detection:* Locate faces in an image.
- *Face Analysis:* Detect distinct features.
- *Face Encoding:* Convert image to an array.
- *Face Match:* Compare face with the known data.
- *Output:* Return Identity if available, otherwise return unknown.

IMPLEMENTATION

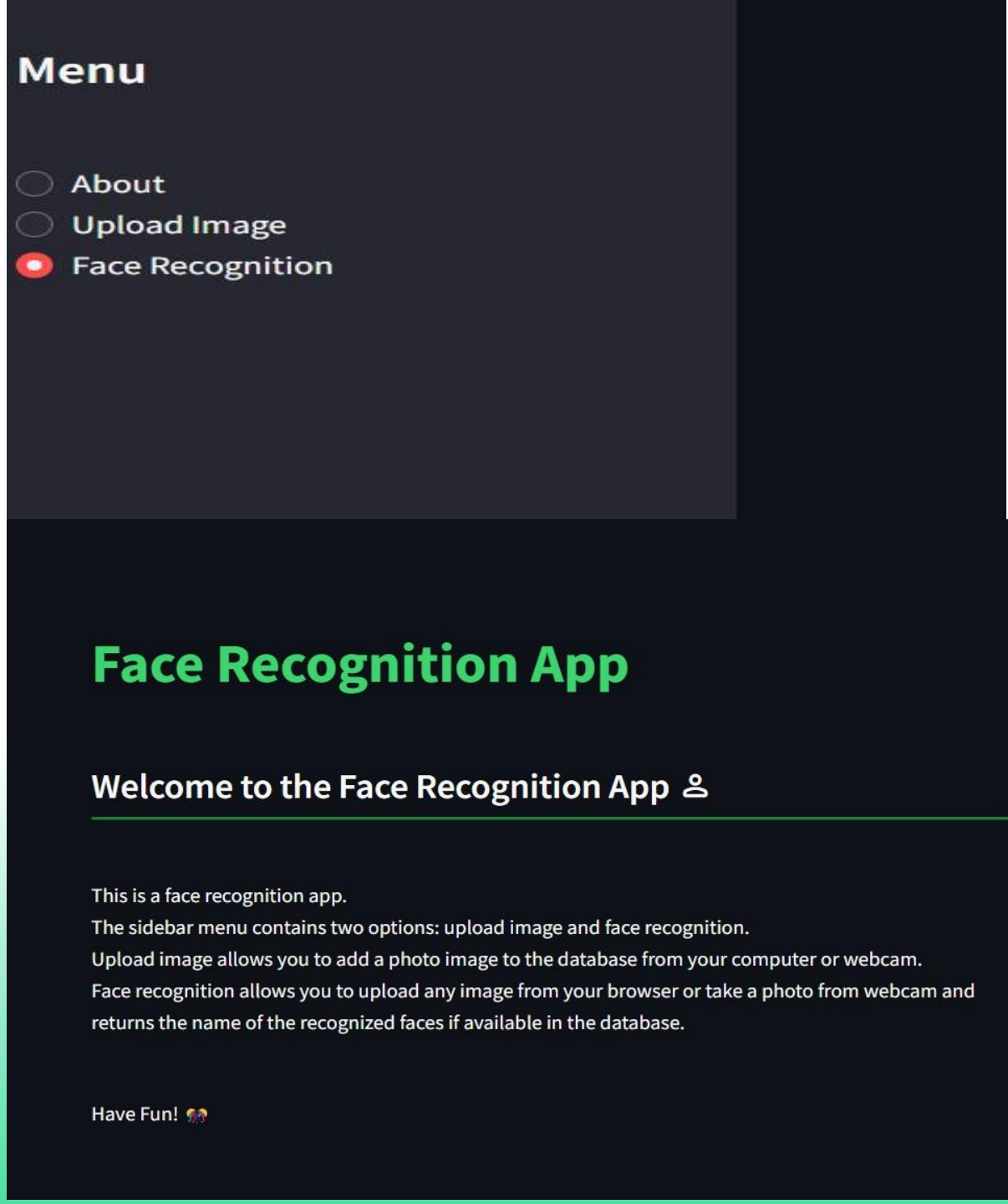
Steps involved in implementing face recognition system:

- Collect data: Images
- Encode faces in dataset
- Load database
- Take input data
- Match Faces with known data
- Output

STREAMLIT APPLICATION

The app contains following tabs:

- About
- Upload Image
- Face Recognition



CONCLUSION

- Tricky to use.
- Advanced computational setup for efficient performance.
- Large database will add nuance to the system.
- Can be improved using deep learning.
- System should be used with diligence.
- Policies regarding data usage should be made public.