

Smart Demographic Recognition System v.3

Enhancing Social Connectivity

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Project Overview

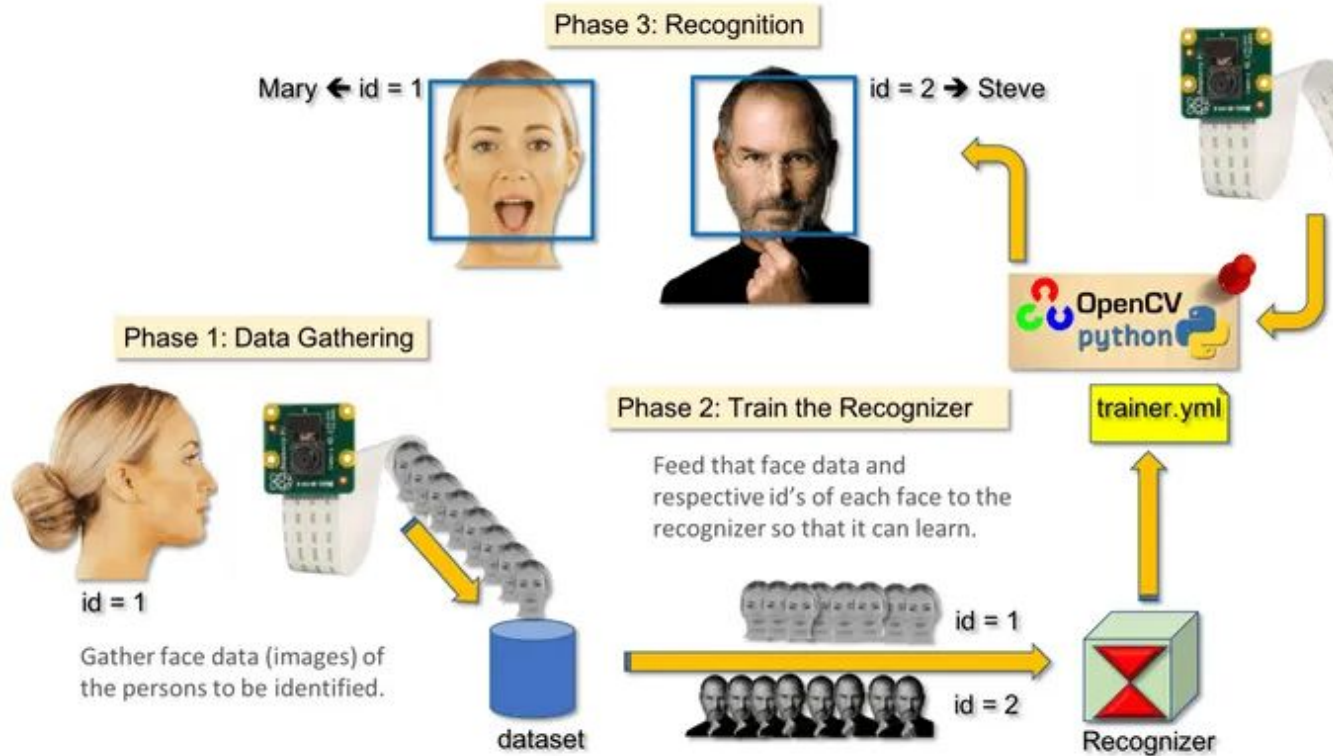
This innovative system is designed to enhance social connectivity by capturing images, processing them on a server, and displaying real-time demographic information such as name, age, social activities, and phone number.



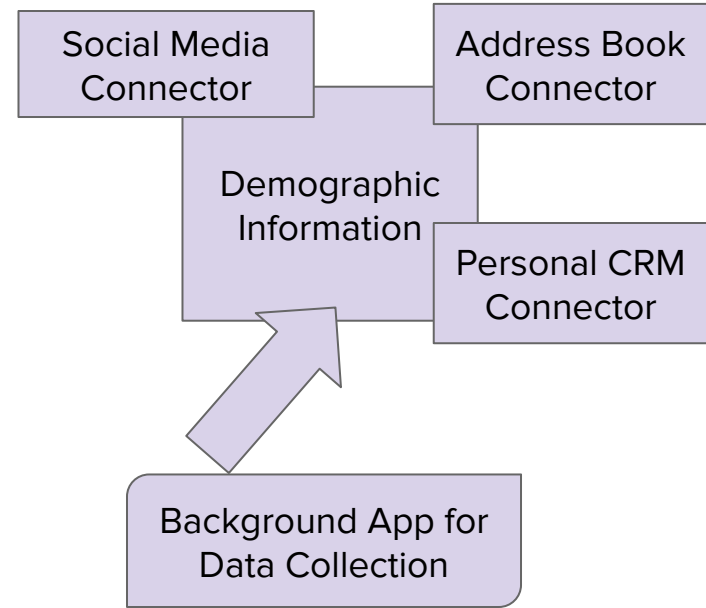
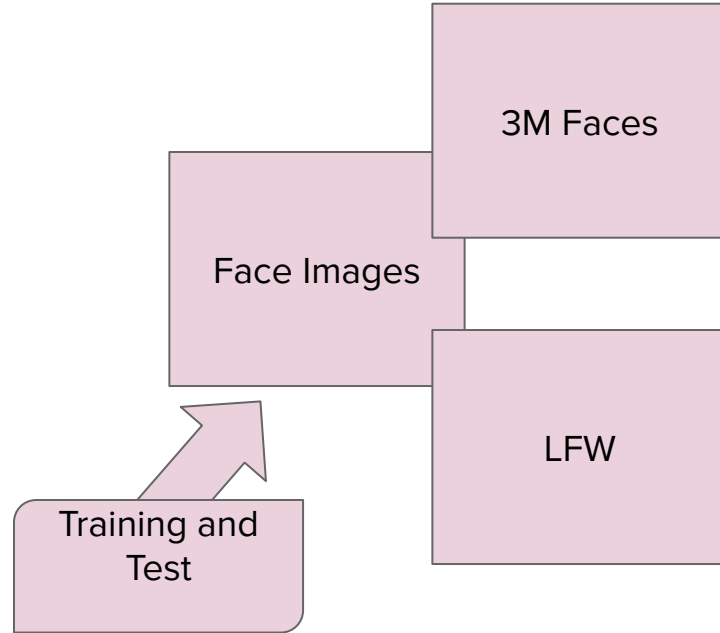
Area of Application

- **Social Media and Influencer Marketing:** Enhances interaction between influencers and their followers by providing real-time information during live events or meet-and-greets.
- **Senior Care and Assistance:** Supports individuals with memory impairments, such as those with dementia, by helping them recognize family members, caregivers, and friends.
- **Public Safety and Security:** Utilized in security systems for identity verification, enhancing safety in public spaces, events, and secure facilities.
- **Education:** Assists educators in large schools or universities by helping them remember students' names and details, fostering a more personalized learning environment.
- **Healthcare:** Enables medical staff to quickly identify patients, access critical health information, and provide personalized care.

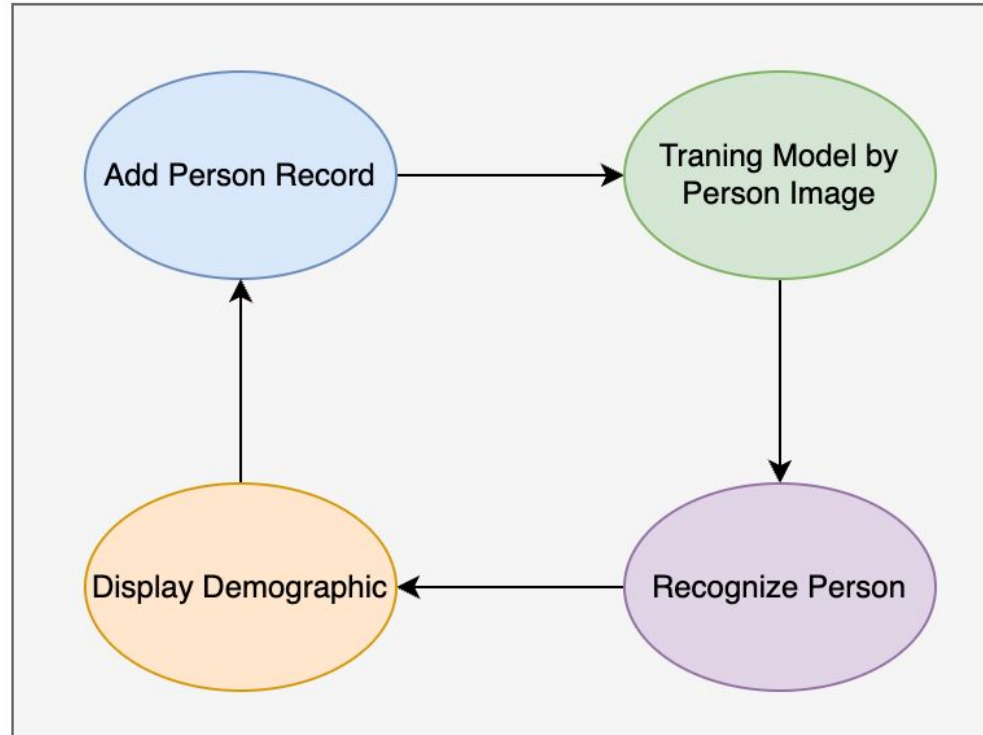
Architecture Overview



Data Collection



System flow



Used Technology

1. Django
2. Sqlite
3. OpenCV
4. Face Recognition Lib
5. Face Recognition Models
6. LFW dataset

Future Directions

We're not stopping here. Our vision for the future includes expanding applications, enhancing model accuracy, and exploring new ways to integrate this technology into daily life, making personal connections deeper and more meaningful.



Challenges

Despite our advances, challenges such as ensuring privacy, adapting to diverse conditions, and optimizing for various hardware setups remain at the forefront of our development efforts.

- Improve the accuracy
- Dataset (3M Face, LFW)
- Collect Data known person information mobile app
- Ensure Security of Data
- Collect data from social media and integrate it.



Conclusion

In conclusion, the Smart Demographic Recognition System stands as a beacon of innovation in enhancing social connectivity. Through technology, we're opening new pathways for

- Interaction,
- Understanding,
- and Safety.

Demo [Add Person]

Smart Demographic Recognition System

Live Face Identify

Live Capture Face Identify

Add Person

Add Photos

Train Model

Choose File No file chosen

Process Image

Files Processed: 0

Enter Employee details

ID:

NAME:

Save

Demo [Add Photo]

Smart Demographic Recognition System

Live Face Identify

Live Capture Face Identify

Add Person

Add Photos

Train Model

Choose File No file chosen

Process Image

Files Processed: 0



Back

Files Saved: 0

Capture Image

Demo [Train Model]

Smart Demographic Recognition System

Live Face Identify

Live Capture Face Identify

Add Person

Add Photos

Train Model

Choose File No file chosen

Process Image

Files Processed: 0



Demo [Display Demographic Info]

Smart Demographic Recognition System

Live Face Identify

Live Capture Face Identify

Add Person

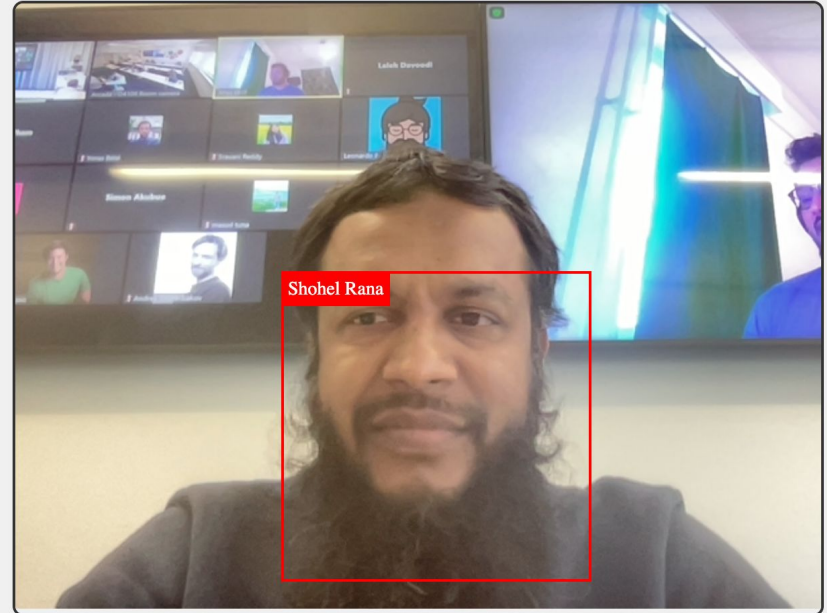
Add Photos

Train Model

Choose File No file chosen

Process Image

Files Processed: 0



Back

Files Processed: 12/30

Demo Link



THANK
YOU