

PROJECT CRUX





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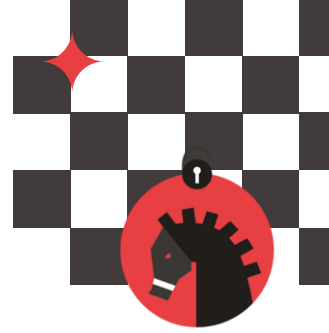
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ABSTARCT IDEA

- In today's world, there are a lot of criminal events happening
 - And in this paper we propose an application aiming to help police officers by helping them in their investigation.
 - We mainly focus on to three features :
1. Face sketching using Machine Learning
 2. Finding digital evidences from photos using digital image processing
 3. Comparing similar cases by using Artificial intelligence





ABSTARCT IDEA

- Face sketching mainly depends on helping the officers to get a pictural format of the culprits from the details given by the witness.
- Finding Digital evidences from photos helps the officers to find the evidences which are difficult to find by the officials
- Comparing similar cases helps the officers to find and compare similar cases with the new case and can shortlist the culprits.



Existing System



- Nowadays, face sketching are done with help of a person and a human expert who knows to sketch based on description.
- Even though the accuracy is much higher, the amount of time required to sketch is also very high.
- Records of criminal activities are still kept as raw data in the libraries and its very inconvenient to access a particular file from this as it requires a huge amount of time and patience
- Keeping digitized records and accessing it through keywords is the new future.
- Even though evidence collection is much simpler and accurate when done by in person
- A machine assistance can be helpful in certain conditions.



Problem Identification



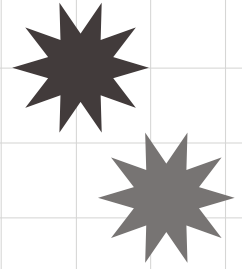
Human expert
requirement in
face sketching



Handwritten
FIR's and
storage



Human
ignorance when
collecting
evidence



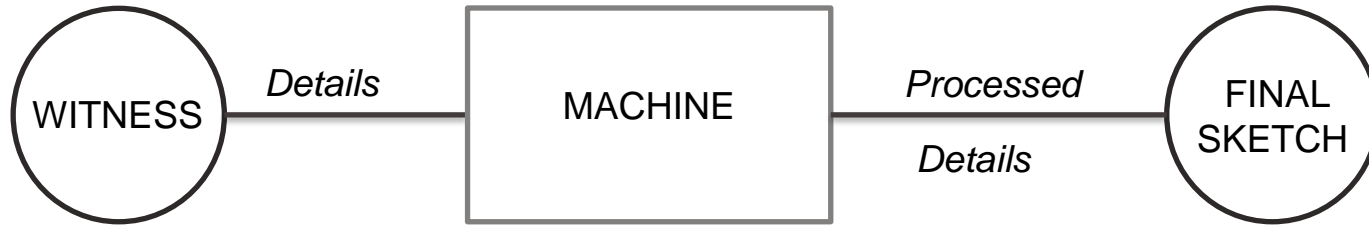
Proposed System



- In this paper we propose a system that can be helpful for the peacekeepers of this land.
- As time is the most valuable and critical element in an investigation, we intend to provide technical support to help in a quick identification of the culprit.
- Face sketching using machine learning can remove the integral part in a traditional method, i.e., a expert intervention
- Providing assistance to store large amount of case files and searching through these large database using keywords can help in identification of similar cases much faster and easier.
- As humans we tend to make ignorance mistakes and this can be fatal in an investigation
- By providing help in finding evidences using digital image processing we intend to help in investigation.



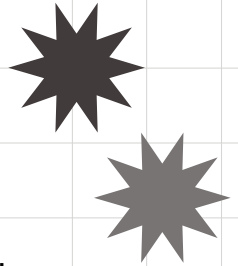
Proposed System



Conclusion

- Through this project we intend to make every aspect of a criminal investigation much simpler and digitized
- A model to sketch a face with data inputs taken from an eye witness can decrease the time and labour involvement to a certain extent
- Keeping all the documents related to investigations as raw files can result in impracticality when required to access certain files and keeping them digitized will be much better

With this project we intend to help investigators in identifying evidences that might be missed by them



Reference

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