

Summer Internship 2019

NITK
SURATHKAL
3RD YEAR



PRESENTED BY RISHI SHARMA

Presentation Overview

THINGS WE'LL COVER

- Internship Expectations
- Problem Statement
- Objectives
- Challenges
- Internship Activities
- Accomplishments
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My Internship Expectations

Coming into this Internship , I wanted to :


- Acquire very relevant hands-on experience, build skill set and improve my knowledge base in Machine Learning and Artificial Intelligence.
- Harness resources presented by the internship in forms of Education, Exposure, Information, and Career advice from Staff etc. to forge ahead on a well informed path in the Industry.
- Increase confidence in my abilities & add to my resume and references.
- Contribute positively to the Police Department, in terms of Quality of service in all my required input.

Making new friends and increase my network



Problem Statement

I have to create a web application for doing Criminal Image Search(given an input image, I have to predict similar images available in the database)



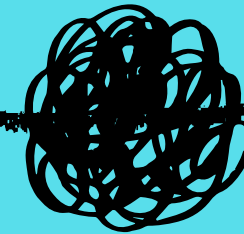
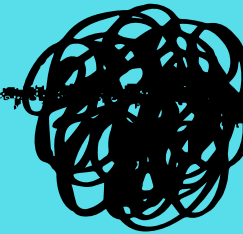
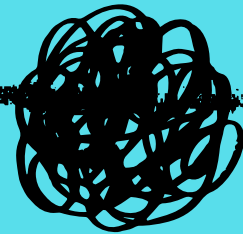
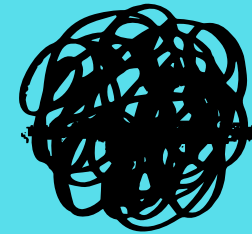


Objectives

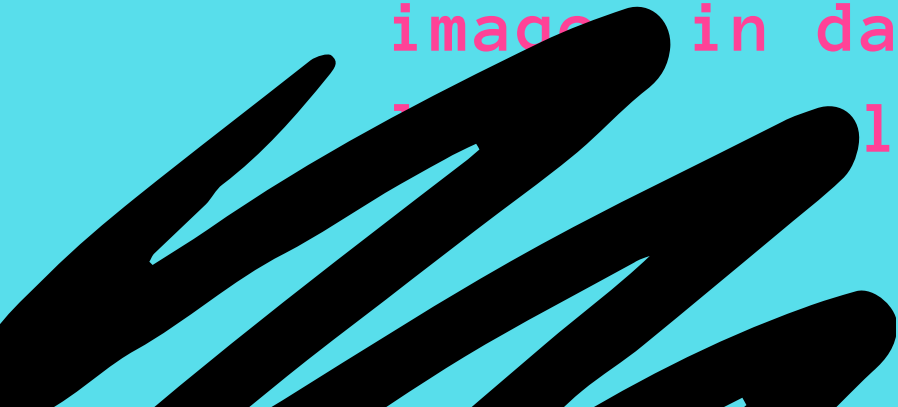
- To work cooperatively with my advisor and Mr. Ambedkar sir to complete the internship as required by the KSP
- To learn web development and django framework to create web application for doing criminal image search
- To create pipeline which does the work of facial recognition and then converting it into the form so that it can be used for doing criminal image search



Challenges


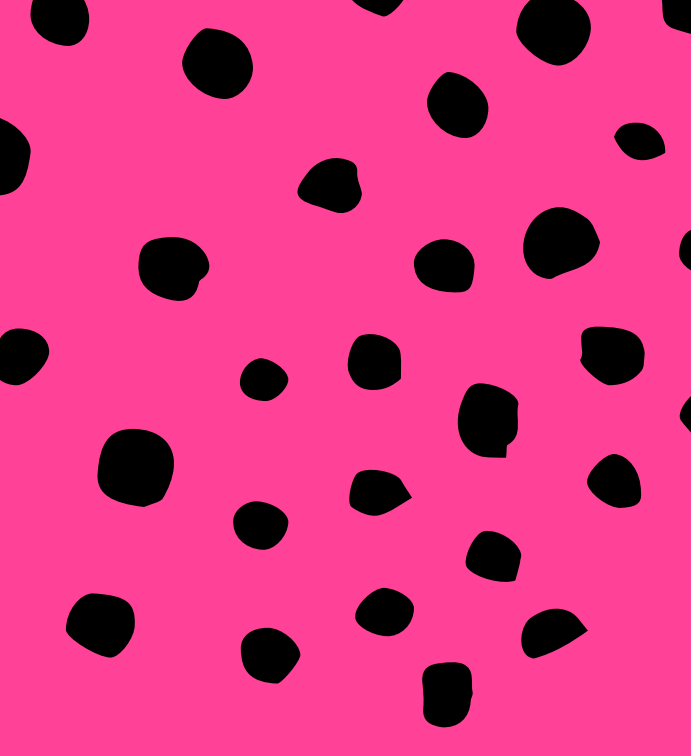


- First challenge, web development as i don't know that and time was less, but finally i decided to learn it and finally able to make a website for the task.
- Second challenge, speeding up the image search algorithm as initially it was taking around 3 minutes to show the result of single input image.
- Third challenge, machine learning algorithm was trained on high quality images and the quality of images the department is having was very low, also images were not that good as there were some scratches on face of criminal etc.
- Fourth challenge(biggest one!), there may be possibility that the image in database can be quite old while input images will be latest one.




Internship Activities

- Providing daily updates regarding project status, issues between projects and escalate to mentor for immediate action.
- Regular Meetings with the mentors and supervisor for showing the progress and issues regarding the task.
- Going to the IISC to meet the mentor and clarify the doubts and get feedback about the task from him.

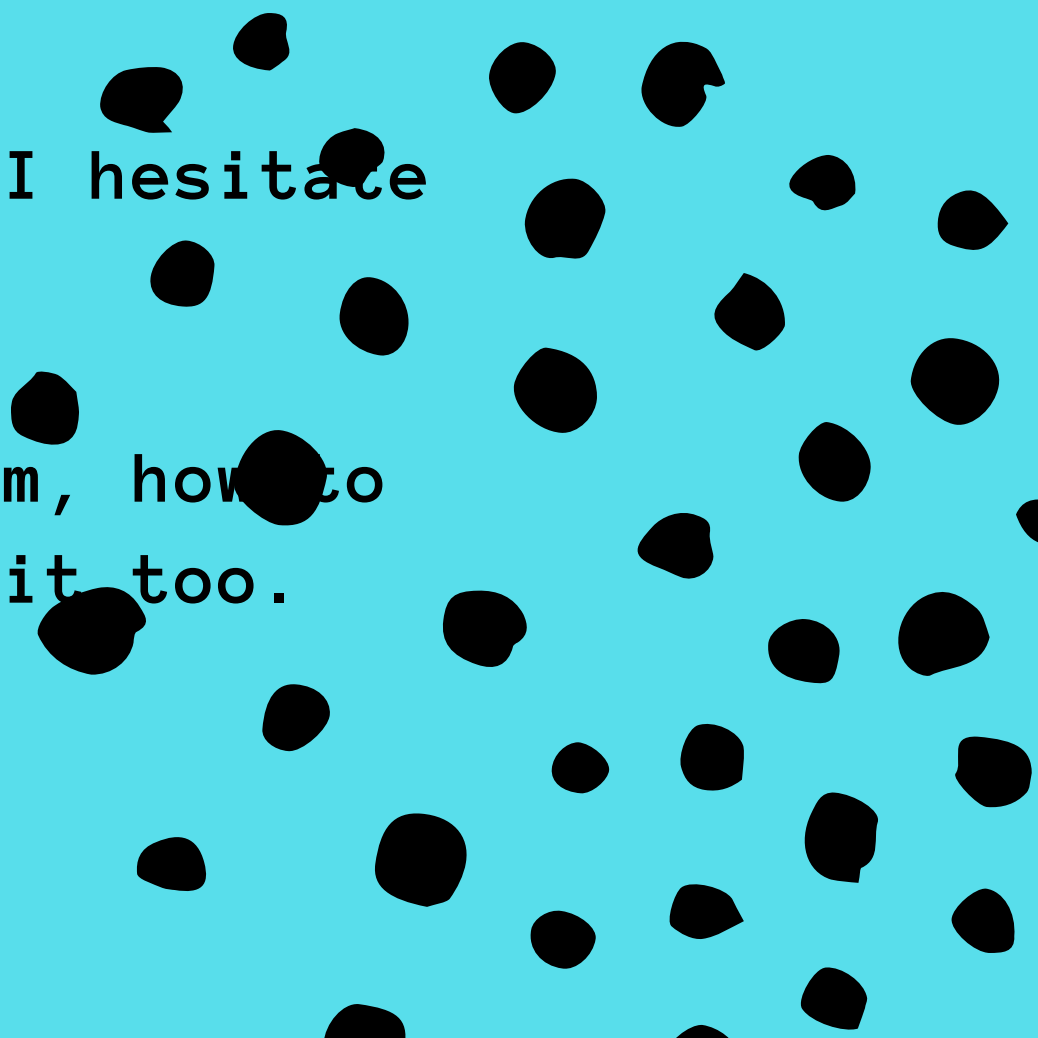



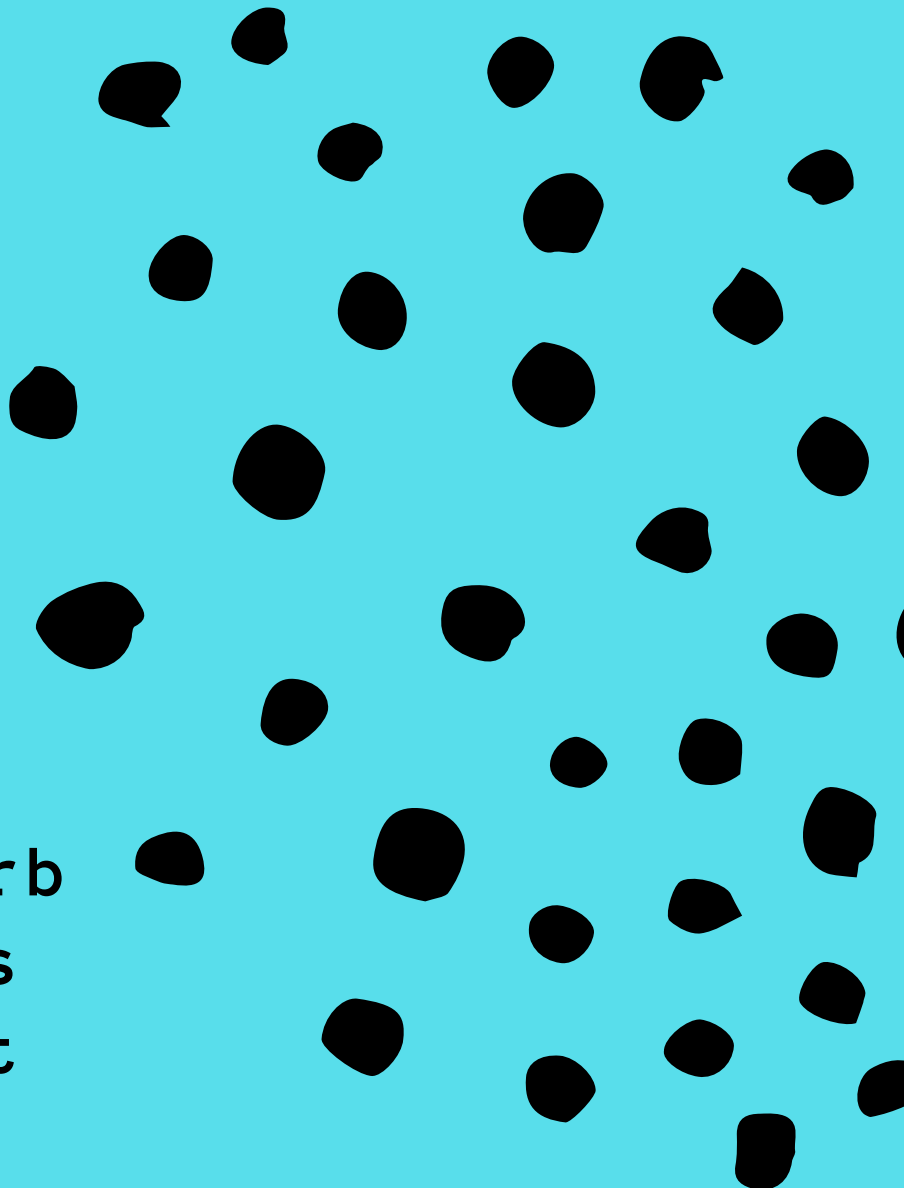
Accomplishment

- High accuracy facial recognition model.
 - Complete functional website for doing criminal image search with some additional features.
 - Successful completion of project.
 - Good reviews from the mentor Mr. Ambedkar Sir about the task which I had done.
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Personal Benefits & Lesson Learned

- I have developed better team building skills by working with several groups to accomplish the same goal.
 - I have made some good friends.
 - I have learned a web development which sometimes before I hesitate to learn.
 - I had learnt a lot about databases, how to deal with them, how to input data(image, text, number) to it and retrieve from it too.
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- I have learned to read e-mails ,keep informed and make constructive reply.
 - I have learned to pay attention to detail and absorb as much information on my project as possible. This has helped me get more knowledgeable on the project as opposed to skimming through documents.
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LET'S WORK TOGETHER.

