



CROWD COMPUTING USING CNN

Subject: Minor Project – II (IT 442)

INFORMATION AND TECHNOLOGY DEPARTMENT

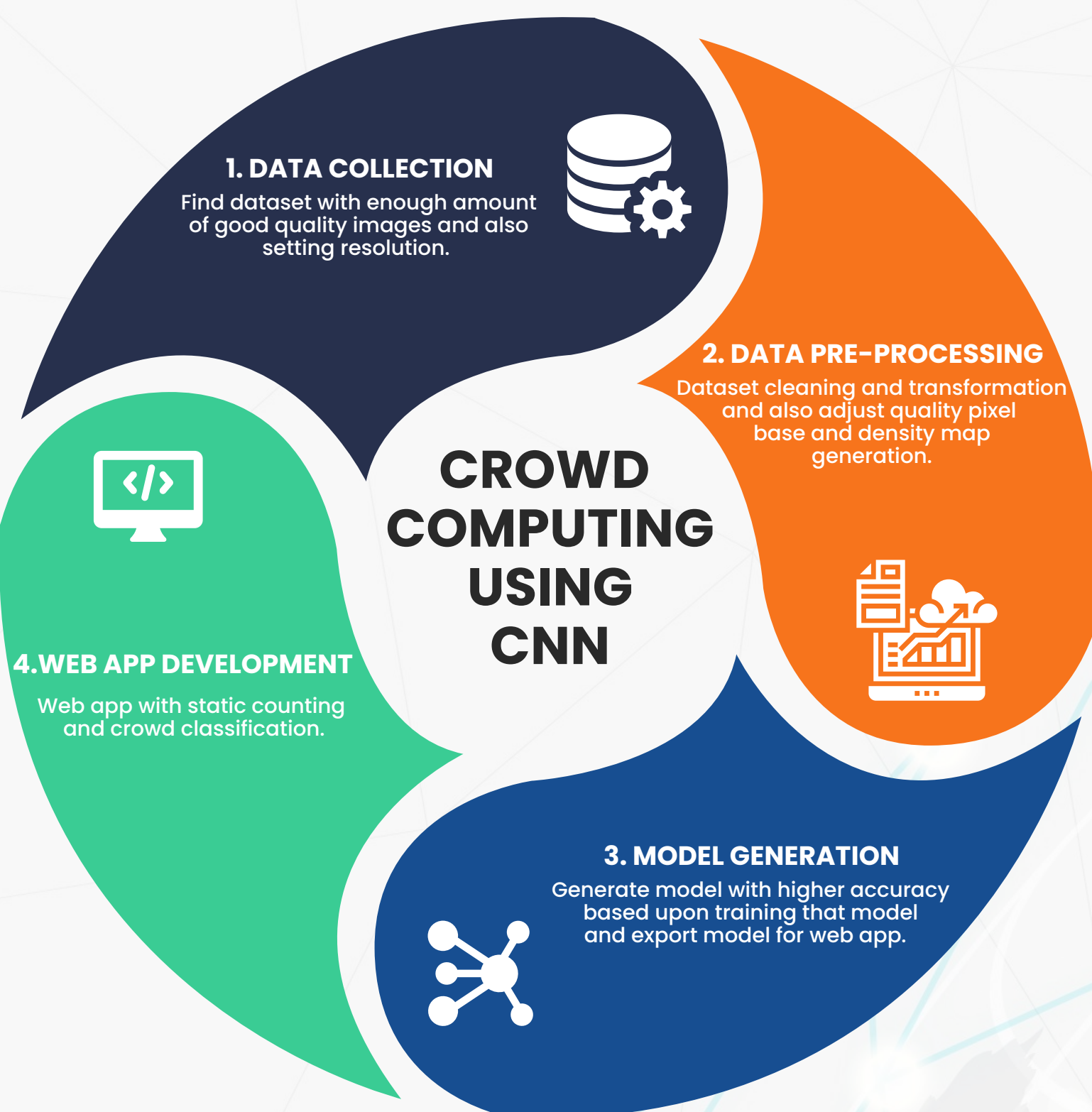
BIRLA VISHVAKARMA MAHAVIDYALAYA ENGINEERING COLLEGE (An Autonomous Institution)



Abstract

- The proposed system is developed for situations where emergency evacuations are required such as fire outbreaks, calamitous events, etc. and making informed decisions on the basis of the number of people such as food, water, detecting congestion, etc.
- This poster presents the development of crowd counting model using CNN. This model has wide feasibility like image size and colour and resolutions and it is also work with great accuracy.

OUR APPROACH



Workdone

CROWD PREDICTOR

Home How To Use About Predictor Team LET'S TRY

We make the crowd counting easy.
All the tools you'll need to be more productive and work smarter with documents.

HOW TO USE? LET'S TRY

How To Use?

Upload Image

Choose File images.jpg

UPLOAD IMAGE

Select an image from your storage using a **Choose File** option.

After selecting an image click on **UPLOAD IMAGE** button and wait for time to get image processed.

After processing the image there will be a **Predicted count** and **Density map**.

What is Predicted count?
Possible number of persons in that image.

Density map?
It is a image created using uploaded image and high concentration areas in density map shows high probability of person might present there.

Results

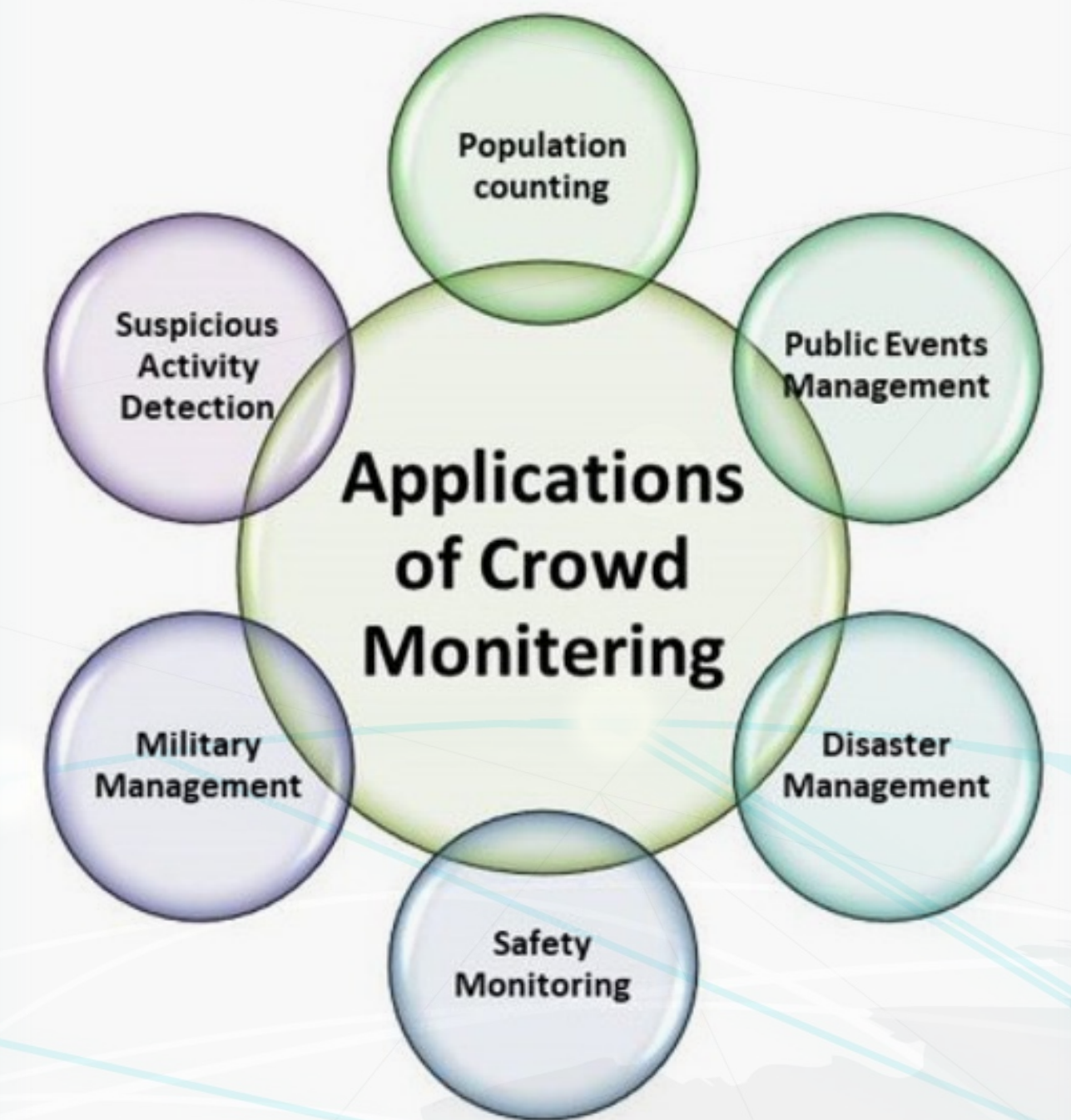
Normal Image

Density Map

Predicted count: 252

DOWNLOAD DENSITY MAP

Applications



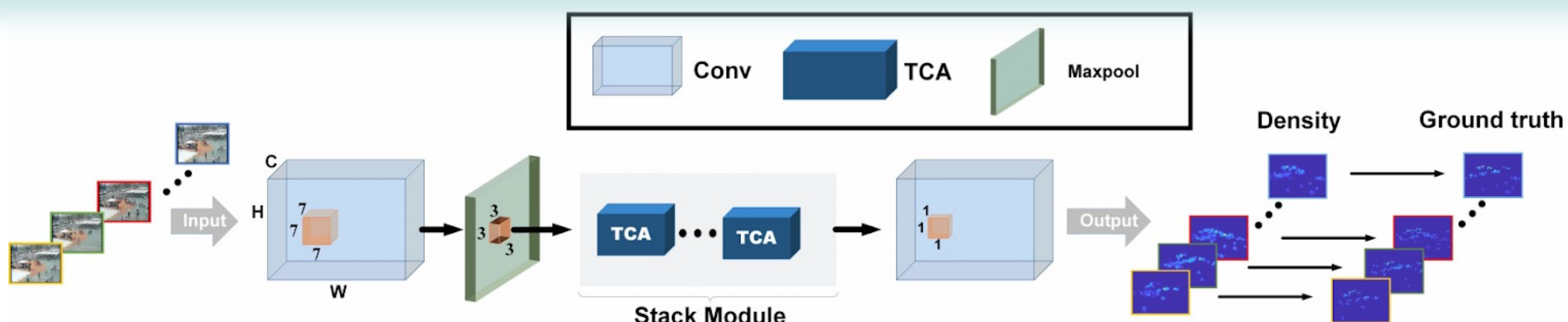
Conclusion

- The proposed system performs admirably in situations where manual counting is simply not possible. Deep learning also enables the system to perform in versatile environments and continuously learn from new inputs.

Future Work

- The project is flexible in terms of expansion and can be expanded to trace or study the movement of the crowds which could be helpful in managing riots, rallies etc.

Network Architecture



Team

Guide By
Prof. Prachi Shah

Made By
Keval Padsumbiya(17IT405)
Gopal Sakhwala(17IT411)
Neel Savani(17IT469)
Maulik Beladiya(17IT409)