

MINOR PROJECT - 2

(COGNITIVE APPLICATION)

THEORY QUESTIONS

1. When should you use classification over regression?
2. How do you deal with the class imbalance in a classification problem?
3. What is a confusion matrix and why do you need it?
4. What is the difference between sigmoid and softmax function?
5. Why is logistic regression a type of classification technique and not a regression? Name the function it is derived from?

Simple Classification with Python

Implement the **Simple classification** algorithm over the dataset given below

Dataset:

<https://www.kaggle.com/c/dogs-vs-cats/data>

Reference:

<https://www.geeksforgeeks.org/project-idea-cat-vs-dog-image-classifier-using-cnn-implemented-using-keras/>

For the final submission either provide us with the link to the Github repository or upload your .ipynb file.