# **CS385 Computer Vision**

# **Lab-4: Stroke and Skin Cancer Classification Using HOG Features**

# **100 points**

**Task :**

Histogram of Oriented Gradients (HOG) is a feature descriptor widely used in computer vision for object detection and recognition. HOG features capture information about the local intensity gradients in an image, making them particularly effective for identifying object shapes and structures. In this lab we attempt, HOG based classification of real world datasets.

Assignment:

1. Extract features using HoG on skin cancer dataset

2. Try 5 ML models like SVM, RandomForest etc and classify skin cancer.

3. Compare the accuracy of ML models. 

Dataset:

<https://u.pcloud.link/publink/show?code=kZPNN00ZP7CnwHNeBJ4L495LfuKcsHwOnq5y>

**Submission:**

Demonstrate your work . Also submit as a single file the code and results.

<https://u.pcloud.com/#page=puplink&code=FQ3kZibg7PgKI2KVe4sgY1Mdx14H7pDQk>