Lab 7

Statistics, Machine Learning, Deep Learning

- 1. Write a Python program that computes the value of the Gaussian distribution at a given vector X. Hence, plot the effect of varying mean and variance to the normal distribution.
- 2. Write a python program to implement linear regression.
- 3. Write a python program to implement gradient descent.
- 4. Write a python program to classify different flower images using MLP.
- 5. Write a python program to classify different flower images using the SVM classifier.
- 6. Write a python program to classify different flower images using CNN.
- 7. Write a python program to classify different handwritten character images using the SVM classifier.
- 8. Write a python program to classify different face images using CNN.
- 9. Write a python program to identify a person from the walking style (gait recognition) using convolutional recurrent neural network.
- 10. Write a python program to classify breast cancer from histopathological images using VGG-16 and DenseNet-201 CNN architectures