CS 6301 - Machine Learning Lab - Week 9

Date: 28.03.2024

IMPLEMENTATION OF PRINCIPAL COMPONENT ANALYSIS ALGORITHM FOR DIMENSIONALITY REDUCTION

SPOT QUESTION

- 1. Write the python code to implement Principal Component Analysis (PCA) and run the code for PCA on the flight data provided in the FlightDelay.csv file.
- a) How many components did the PCA generate when you first run the analysis?
- b) Provide a table of feature weights for each component.
- c) How many components would you keep and why?
- d) Using answers from (b) and (c) which features would you keep?