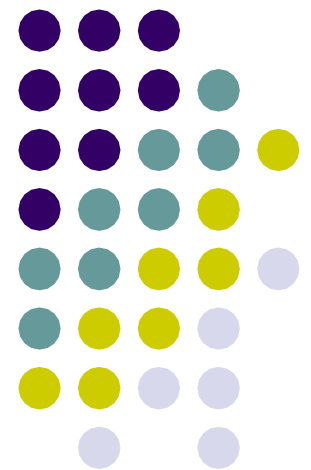


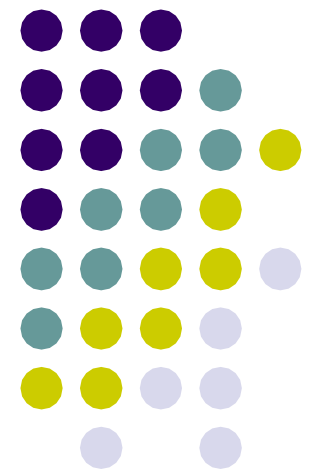
Introduction to Artificial Intelligence

Prof. Inkyu Moon

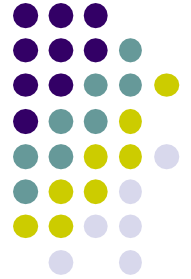
Dept. of Robotics Engineering, DGIST



RNN Designs (Assignment)



Classifying movie reviews: a binary classification project



- In this project, you'll learn to classify movie reviews as positive or negative, based on the text content of the reviews.

Classifying movie reviews: a binary classification project



The IMDB Dataset

- You'll work with the IMDB dataset: a set of 50,000 highly polarized reviews from the Internet Movie Database.
- They're split into 25,000 reviews for training and 25,000 reviews for testing, each set consisting of 50% negative and 50% positive reviews.

Classifying movie reviews: a binary classification project



- You should train your own vanilla RNN with the training dataset in the IMDB Dataset, evaluate the trained networks with the test dataset.
- Note that you can refer to *the chapter 3 and 6* for conducting this project
- **1) Evaluate your vanilla RNN performance by varying the total number of epoch (25pt).**
- **2) Improve your vanilla RNN performance using the LSTM models and show the performance by varying the total number of epoch (25pt).**
- **3) You should try to achieve more than 90% test accuracy by using your own LSTM model (50pt).**

