

BLG561E Deep Learning HOMEWORK 4

In this assignment, you will implement RNN Layer in Numpy and use RNN, LSTM and GRU in Pytorch for Sales Forecasting of Migros' Fruits and Vegetables Data.

INSTRUCTIONS:

Feel free to check Blog posts, Stanford CS231n and Coursera Deep Learning Notes for understanding how generative models work. But DO NOT COPY any code parts from them.

Follow along and implement all the checks in notebook files:

Recurrent Neural Networks.ipynb (20 points); MigrosSalesPrediction.ipynb (80 points);

Since data is not huge, you can use your local system but still you can use Google Colab if you want.

SUBMISSION INSTRUCTIONS:

When you upload jupyter notebooks make sure that notebooks consists not only the code but also generated results and figures. Upload notebooks, blg561 and data folders in a zip to Ninova.

Penalties for cheating and plagiarism range from a 0 or F on a particular assignment, through an FF grade for the course, to disciplinary action and to expulsion from the university.

For more information read the page: **ITU Ethics in University:**
<http://www.odek.itu.edu.tr/?SayfaId=13>