Getting familiar with the environment

1. How to use google collab for ML
2. How to mount google drive to google collab
3. How to write code in an interactive way and execute it(Jupyter notebook and google collab)
4. How to install jupyter notebook in your local machine

Recap some concepts of linear algebra

1. Matrix operations(multiplication, inverse, transpose, identity)

Getting familiar with python

1. Learn the basics (variables, control structure, loops, strings,error handling and functions)
2. How to solve linear equations with python
3. How to solve matrix problems with python(converting column vector to row vector, slicing row vectors into different columns)

Learn Numpy

1. How NumPy array works and why is it necessary

Learn pandas

1. How panda handles data frame, and why panda is so useful
2. What operations can be done on the data frame using panda
3. How to normalize data

Evaluation criteria:

As it is a 0.75 credit lab, in the best-case scenario there will be 6/7 labs(1 lab already took place).

Daily task

There will be tasks given at the lab and you have to solve them at the lab on the given time; also there will be some home tasks given as assignments with due time which you have to submit.(An example given by sir is- 10 problems will be given, you may have to do 5 problems in the lab and 5 are home task)

Project

Team-based project with 3 people, the scope and criteria of the project isn't disclosed yet. The evaluation of the project will be on 3 sections-

1. Report writing(documentation of the project)
2. evaluation(the outcome of the project and its accuracy levels)
3. implementation(Which concepts of the lab did you implement on your project, why and how? and what are the problems that you faced while implementing)

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