cs120_lab1a_math_review

databricks

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Math and Python review

This notebook reviews vector and matrix math, the NumPy (http://www.numpy.org/) Python package, and Python lambda expressions. Part 1 covers vector and matrix math, and you'll do a few exercises by hand. In Part 2, you'll learn about NumPy and use `ndarray` objects to solve the math exercises. Part 3 provides additional information about NumPy and how it relates to array usage in Spark's MLlib (https://spark.apache.org/mllib/). Part 4 provides an overview of lambda expressions.

To move through the notebook just run each of the cells. You can run a cell by pressing "shift-enter", which will compute the current cell and advance to the next cell, or by clicking in a cell and pressing "control-enter", which will compute the current cell and remain in that cell. You should move through the notebook from top to bottom and run all of the cells. If you skip some cells, later cells might not work as expected. Note that there are several exercises within this notebook. You will need to provide solutions for cells that start with: `# TODO: Replace <FILL IN> with appropriate code`.

This notebook covers:

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