Assignment 7

## Fundamentals of Data Analytics

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Importing Numpy as np

Text

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creating user preferences and a random movie matrix of 10,000 movies.

Here the randint will make random integers from 0-4

So we added a 1 at the end to increase the scale from 1-5

Graphical user interface, text, application

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Here we use numpy array function to create our matrices. We will have both a user\_pref and a movies matrix to represent our data. To check our dimensions, we can use the numpy shape variable, as shown

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Here we checks out. Last but not least, let's use the matrix multiplication method of numpy (called dot) to perform the operation, as illustrated:

A picture containing table

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Here result is an array of integers that represents the recommendations of each movie. For a quick extension of this, let's run some code that predicts across more than 10,000 movies, as shown

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Thank You