Marrie system & Bunne Baily recessment gormat Date: 18 July 100,00 DENSTRALIAE 1037 consectouseera Topic: martineratice for machineleasing althoritory systemoniece dinear algebra is a embigield of mathematice connection and with veitors, matricians linear transforms it is a key foundation to the field of mailmore learning of the operation of the from notations used to describe the operation of algorithms in algorithms to the implementation of algorithms to algorithms to the implementation of algorithms to algorithms to the implementation of algorithms. code. Although linear algebra is integral to the field of machine learning, the tight relationship is often left machine learning, the tight relationship is often left concepts such incaplained or explained using abstract concepts such incaplained or explained using abstract operations are vector spaces or specific matrix operations. as vector spaces or specific matrix operations In tens post, you will disloves to common as of machine learning that you may be gambles wife that uses really best understand using the that uses really best understand using linear algebra. The use of linear algebra structures when weeking with data, such as tabular datasets, 4 images - Linear algebra concepts when working with data preparation, such as one not encoding of dimension -nality reduction.

The ingrained vice of linear algebra notation of methods in sub-fields such as deep learning, natural language processing, of recommender systems. > The math includes atleast calculus, statistics, probability theory, & linear algebra numerical analysis, & sometimes like topology will belp it you want to create your own algorithms or tackie deep learning. Linear algebra is absolutely key to understanding the calculus 4 statistics you need in machine I cain

ing deeper intuition if you can understand machine

learning methods at the level of vectors 4 matrices

you will improve your intuition as how a when You will improve your intuition for how & when deportion of linear algebra: a branch of mathe matrice tent is concerned with mathematical structures closed under the operation of addition of scalar multiplication of that includes the theory of system of linear eggs milrices, determinants, voitos spaces, & linear transformations. linear algebra plays a major sole in artigicial intelligence f machine learning in various machine learning algorithms like sugarviced learning & unsug envised leaving to calculate ilps of to train the machines with the characteristics of expected offer the matrix thiology suggests tent everyone has Main point of the matrix the individual suponsibility to make the choice between the real world. I him artificial world. Hough sole to his adverture no relies on the plays a large Role on his adventure, neo relies on the oracle, for everything she says comes true in some way

Apphication of matrices Almost every branch of physics including allowers are mechanics, of hearth electromagnetism distributions much anics, a quantum electrodynamics has the way with the way to be a proposed to the second section of the section of the second section of the section of the section of the second section of the second section of the sec Weed to study physical phonometra, such as son matures have also come to have important applications on an computer graphics, where they have harrism records.

Vied to appresent lotations of other transfer in veros of a made is a record to a made in the contract to of amager is a 2x3 matria. A matria as order in in columns is called a square materia of order is