Linear Algebra

00:00 - Introduction

04:00 - Vector spaces, the rank of a matrix, linear independence (quick recap)

10:00 - Given Ax=b where A is a 5x5 matrix and if we know 4 solutions for this system of equations, totally how many solutions exist for this system?

16:00 - Eigen values, Eigen vectors (quick recap)

49:50 - Relation between orthogonality and linear independence of a set of vectors

58:30 - Find the value of x that makes the following matrix singular. A=[I_n, b; b^T, x], where A is a (n+1)x(n+1) matrix, I_n is an identity matrix of order n, b is an n-dimensional vector and x is a scalar.

1:12:15 - Q & A